

An integrated study of general chemistry. Covers a range of topics including the atomic structure of matter; molecules; chemical reactions; acids and bases; gases; and equilibria in the gas and liquid phase. Students are expected to use algebra to solve problems.

Designed to provide students with a thorough and comprehensive background in history and roots of jazz as a musical style from its African roots to the present. Essential jazz styles and traditions are discussed through lectures, required listening, readings, lecture demonstrations, and film presentations.

lead discussions of major ethical questions having arisen from research in genetics, medicine, and industries supported by this knowledge. Bioethics is an interdisciplinary course focused on biotechnology literacy, with instructors from both science and philosophy. The coursework consisted of two exams and weekly short essays.

Coverage includes quantum mechanics; the hydrogen atom; many-electron atoms and chemical periodicity; elementary covalent bonding; thermochemistry; and intermolecular forces and solutions, including colligative properties.

covers general chemistry concepts and applies them in an experimental laboratory context.

Coverage includes quantum mechanics; the hydrogen atom; many-electron atoms and chemical periodicity; elementary covalent bonding; transition metals; and chemical kinetics.

Coverage includes thermodynamics; oxidation-reduction and electrochemistry; liquids and solids; intermolecular forces and solutions, including colligative properties; and nuclear chemistry.

The limit of a function, calculating limits, continuity, tangents, velocities, and other instantaneous rates of change. Derivatives, the chain rule, implicit differentiation, higher derivatives. Exponential functions, inverse functions, and their derivatives. The mean value theorem, monotonic functions, concavity, and points of inflection. Applied maximum and minimum problems.

Topics covered included limits and continuity, differentiation formulas and rules for algebraic and transcendental functions, and applications of differential calculus.

The definite integral and the fundamental theorem of calculus. Areas, volumes. Integration by parts, trigonometric substitution, and partial fractions methods. Improper integrals. Sequences, series, absolute convergence and convergence tests. Power series, Taylor and Maclaurin series.

Introduction to biochemistry, cell biology, molecular biology, and genetics.

Review of Ideal and Real Gases; Thermochemistry; Kinetics and Mechanisms of Chemical Reactions; Chemical Equilibria (gas phase, acids and bases, titrations, buffers, solubility, and complex ions); Free Energy and Spontaneity of Reaction; Oxidation/Reduction (Redox) Reactions and Electrochemistry.

general chemistry concepts and applies them in an experimental laboratory context.

covered included the definite integral, the fundamental theorem of calculus, volumes of revolution, techniques of integration, arc length and surface area, and sequences and infinite series. A wide range of concepts and techniques used in the modern laboratory are included in the exercises. Designed to satisfy the introductory biology lab requirement of many medical and professional schools.

Topics in morphology, physiology, development, genetics, and endocrinology selected to exemplify current issues and perspectives in organismic biology.

participated in a voluntary greenhouse lab assignment, showing interest and commitment.

learn programming and documentation skills, as well as algorithmic problem-solving, and programming methodologies. Introduces computers, compilers, and editors. Students write small to medium-sized programs.

computer systems and assembly language and how computers compute in hardware and software. Topics include digital logic, number systems, data structures, compiling/assembly process, basics of the system software, and computer architecture.

Introduction to computer systems and assembly language and how computers compute in hardware and software. Topics include digital logic, number systems, data structures, compiling/assembly process, basics of system software, and computer architecture. May include C language.

a chatbot program, introducing simple I/O and if-else statements. a text formatter in the style of fmt, introducing loops and String equals. a player of the dice game craps, introducing static methods. A program to print out dates in Latin, using arrays and Java Gregorian Calendar class. a small text editor, using class ArrayList, and reading and writing files.

Hello world in Java, some basic Unix commands and /afs/. the vi editor, using RCS with ci and co, and using the shell. reading the class newsgroup, and a simple shell script. Hello world in C, command line arguments, exit status, stdin, stdout, stderr, and shell redirection. a simple math calculation in C, filters, find, and grep. a couple of C programs using type double, and a simplified wc(1) program. a string processing lab in C, using arrays of characters. the Sieve of Eratosthenes and another array problem in C. a calculator using a struct, arrays, and scanf.

write and revise three major papers including one formal research essay, to participate in both in-class and online discussion groups, and to give a formal research presentation.

Provides declarative knowledge about writing, with a special focus on writing from research, composing in multiple genres, and transferring knowledge about writing to new contexts.

Advanced topics such as the chemistry of terpenes, steroids, synthetic polymers, alkaloids, reactive intermediates, and reaction mechanisms are treated.

chemistry, with an emphasis on reactivity and synthesis of organic compounds.

applications of discrete mathematical systems. Topics include sets, functions, relations, graphs, predicate calculus, mathematical proof methods (induction, contraposition, contradiction), counting methods (permutations, combinations), and recurrences.

Vectors in n-dimensional Euclidean space. The inner and cross products. The derivative of functions from n-dimensional to m-dimensional Euclidean space is studied as a linear transformation having matrix representation. Paths in 3-dimensions, arc length, vector differential calculus, Taylor's theorem in several variables, extrema of real-valued functions, constrained extrema and Lagrange multipliers, the implicit function theorem

organic chemistry, including synthetic methods, reaction mechanisms, and application of synthetic chemistry techniques.

applying classic organic reactions to synthesis. Concepts covered in this course include oxidations, reductions, functional group conversions, condensations and rearrangement reactions. Carbohydrate chemistry, amino acids and protein structures are also introduced.

Laboratory experience in organic chemistry and associated principles. Experiments involve the preparation, purification, characterization, and identification of organic compounds, and make use of modern as well as classical techniques.

C programming, command line, shell programming, editors, debuggers, source code control, and other tools. Examines basic computer systems, algorithm design, and development, data types, and program structures. Develops understanding of process model, compile-link-execute build cycle, language-machine interface, memory, and data representation.

Program in Java, a word counting utility similar to Unix wc(1), which introduced command line arguments and input files. in Java, a utility for insertion, deletion, and lookup of keys and values in a linear linked list. Program in Java, a calculator for parsing RPN expressions into expression trees, and involving post-order traversal and evaluation of these trees. Program in C, a simple text editor in the style of ed(1), implemented as a doubly linked list. Program in C, a spelling checker implemented using a hash table with array doubling. computer systems and assembly language and how computers compute in hardware and software. Topics include digital logic, number systems, data structures, compiling/assembly process, basics of system software, and computer architecture.

RCS and gmake. Unix utilities and the shell. C getopt and exit status. C stdio and strings, was marginally passing. C dbx debugging and memory leak. C malloc and free. C headers and abstract data types. Perl program.

probability theory and its applications. Combinatorial analysis, axioms of probability and independence, random variables (discrete and continuous), joint probability distributions,

properties of expectation and variance, Central Limit Theorem, Law of Large Numbers and Markov chains.

hands-on laboratory geared to teach basic tools used in computational biology (sequence comparison, sequence database searching, multiple sequence alignment, genefinders, RNA analysis, phylogenetic analysis & molecular visualization analysis software). Class time was split between traditional lectures and in-class software demonstrations where students participated in live problem-solving on their own computers. Web- and java-based tools and databases were used extensively to analyze biological sequences.

basic tools used in computational biology (sequence comparison, sequence database searching, multiple sequence alignment, genefinders, RNA analysis, phylogenetic analysis & molecular visualization analysis software).

laboratory geared to teach basic tools and skills used in computational biology (genome browsers, sequence database searching, motif analysis, multiple sequence alignment, gene finders, phylogenetics analysis, protein structure visualization

creation and management of technology start-ups and small companies, using case studies and team projects

Fundamentals of molecular biology, structure and function of nucleic acids, and protein structure.

protein function from ligand binding and enzyme mechanism, kinetics and regulation to membrane composition and membrane protein function.

Writing by engineers and computer scientists to technical audiences. Writing exercises include: cover letter and resume for job application, tutorial writing, grant proposal, document specification, literature review, and a final technical report. Two oral presentations are also required, an in-class presentation and a poster presentation.

abstract data types and basics of algorithms. Linked lists, stacks, queues, hash tables, trees, heaps, and graphs will be covered. Students will also be taught how to derive big-Oh analysis of simple algorithms.

modifying predict-2nd, a neural network program for predicting local structure of proteins, to change the training algorithm used. There are two parts to the change: converting the current on-line gradient-descent backpropagation to batch gradient-descent backpropagation, and then converting to RPROP, a supposedly more robust batch algorithm.

current code the back-propagation is implemented, and started making the changes from on-line to batch updates (which requires some additional storage in the data structures to accumulate the partial derivatives).

Weekly seminar series covering topics of current computational and experimental research in protein structure prediction.

regular attendee of the seminar this quarter, and did a journal-club presentation on a method of protein-fold classification that uses predicted secondary structure. The particular paper he presented was one that is an example of poor results cleverly disguised---a useful paper for students to see in journal club, but not one whose techniques are worth using.

object-oriented techniques of software development including data abstraction, inheritance, poly- morphism, and object-oriented design. Extensive practice using a computer to solve problems, including construction of graphical user interfaces and multi-threaded client/server applications.

Exploration of nature, structure, and functionings of American society. Explores the following: social institutions and economic structure; the successes, failures, and intractabilities of institutions; general and distinctive features of American society; specific problems such as race, sex, and other inequalities; urban-rural differences.

examines the construction of social, racial, and spatial inequalities and focuses on segregation practices, eugenical discourses, environmental racism and refugees, corporate-driven globalization, food justice and sustainability issues, laboring bodies and occupational hazards, and the politics of cultural landscapes.

a short hidden history/spatial research project (individual or group) on the politics of cultural landscapes (lecture, presentation, design of an absent monument tour, and/or proposal for a new student organization), and 4) a creative piece (photograph, poem, song, and/or short essay) about laboring bodies.

abstract data types and basics of algorithms. Linked lists, stacks, queues, hash tables, trees, heaps, and graphs will be covered. Students will also be taught how to derive big-Oh analysis of simple algorithms. All assignments will be in C/C++. symbolic deductive logic. Major topics include (but are not limited to) the study of systems of sentential logic and predicate logic, including formal deduction, semantics, and translation from natural to symbolic languages. statistical inference at a calculus-based level: maximum likelihood estimation, sufficient statistics, distributions of estimators, confidence intervals, hypothesis testing, and Bayesian inference.

bioinformatics models and algorithms: the use of computational techniques to convert the masses of information from biochemical experiments (DNA sequencing, DNA chips, and other high-throughput experimental methods) into useful information. Emphasis is on DNA and protein sequence alignment and analysis. perl programs, a fellowship application, molecule model building with Darling models, and a bioinformatic/web/literature search for information about a protein whose sequence was provided.

Evaluation was based on 9 assignments: 6 perl programs, a fellowship application, molecule model building with Darling models, and a bioinformatic/web/literature search for information about a protein whose sequence was provided.

Identified protein and 2 domains +described structure of chemotaxis sensor +TMHMM +Phobius

+SAM.

Steven was right on the line between passing and failing this course as an undergraduate. He barely made the pass. He would certainly need to retake the course if he plans to do graduate work, as the level was far below the passing level for graduate students.

Improve participants ability to understand and communicate scientific concepts and science thinking.

Students analyze and evaluate classroom observations and education issues related to their placements in secondary science classrooms. Coursework includes readings, seminar participation and written weekly classroom observations.

Addresses issues arising in organizing communications among autonomous computers. Network models and conceptual layers; Internet-working; characteristics of transmission media; switching techniques (packet switching, circuit switching, cell switching); medium access control (MAC) protocols and local area networks; error-control strategies and link-level protocols; routing algorithms for bridges and routers; congestion control mechanisms; transport protocols; application of concepts to practical wireless and wireline networks and standard protocol architectures.

addresses issues arising in internetworking autonomous computers Included are network architecture models and conceptual layers, (physical to the application layer), characteristics of transmission media; switching techniques (packet switching, circuit switching), medium access control (MAC) protocols, local area networks; error-control strategies and link-level protocols; routing algorithms for bridges and routers; congestion control mechanisms; transport protocols; QoS, application of concepts to practical wireless and wireline networks.

experience with commercial (CISCO) networking equipment. Each lab station has four 2621 routers of various configurations, a Catalyst 3550 switch, a Catalyst 2950 switch, and a PIX 506e firewall. Students completed four experiments, each with a pre-lab and a lab report documenting the lab exercises. These included: Linux networking commands; setting up routers, vlans and bridges; and monitoring and analyzing networks using Ethereal, ICMP messages, ping, traceroute, etc. Students learned to configure routers and switches and interpret an Ethernet frame, transport layer packet, and IP datagram.

concepts, approaches, tools, and methodology of database design. Covers the entity-relationship model, the relational model, relational algebra, relational calculus, commercial languages (such as SQL and QBE), functional dependencies, normal forms, and design theory. Other topics may include knowledge-bases, constraint databases, and alternative database models.

database management systems. Topics covered in this course include: relational model, SQL, relational algebra and calculus, functional dependencies, schema refinement, and deductive databases.

computational genomics, DNA and RNA sequence analysis, mapping, quantification, detection of variants and their associations with disease. Covers topics in machine-learning, probabilistic graphical models, gene regulatory network inference, and single cell analysis.

mastery of the probabilistic and causal graphical models assignment.
(predict genetic interactions using a decision tree).

dynamical systems, feedback control, and robotics. Fundamental concepts in dynamical systems, modeling, stability analysis, robustness to uncertainty, feedback as it occurs naturally, and the design of feedback-control laws to engineer desirable static and dynamic response. Course includes an introduction to MATLAB and programming in MATLAB.

statistical inference at a calculus-based level: maximum likelihood estimation, sufficient statistics, distributions of estimators, confidence intervals, hypothesis testing, and Bayesian inference.

tools of stochastic analysis. Probability, conditional probability; Bayes Theorem; random variables and transforms; independence; Bernoulli trials. Statistics, inference from limited data; outcomes of repeated experiments; applications to design; assessment of relative frequency and probability; law of large numbers; precision of measurements. Elements of stochastic processes, Poisson processes; Markov chains.

machine learning algorithms and their applications. Topics include classification learning, density estimation and Bayesian learning regression, and online learning. Provides introduction to standard learning methods such as neural networks, decision trees, boosting, and nearest neighbor techniques.

deep relief nets to learn UCIrvine LED dataset. Although this is a rather simple data set, learning was made more challenging by the addition of noise and he used very interesting advanced methods. Although parts of the report could have used more explanation, his results were quite good.

Examines how the overall level of national economic activity is determined, including output, employment, and inflation. Explores the roles of monetary and fiscal policies in stabilizing the economy and promoting growth, with a focus on contemporary policy debates.

Uses weekly talks by leading industry practitioners and university researchers to provide in-depth exposure to the management of technology. Topics covered include product development, operations, strategy, finance, and marketing for technologies such as software and information systems.

Examines major world issues over the past 500 years. Topics include European expansion and colonialism, the Muslim empires, East Asia from Ming to Qing, the Americas, Africa, the scientific-technological revolution, decolonization, and modern environmental problems. Designed primarily for first- and second-year students, it provides a time frame for understanding events within a global framework.

Laboratory Skills HVAC, Vacuum Pumps and Compressors, Gas/Liquid systems - CO₂, O₂, LN₂, N, Refrigerators and Freezers, Incubators, Various analytical equipment, Automated Lighting, Plumbing, Using Glassware.

SDS Page Gel Electrophoresis Protein Purification Liquid/Gas Chromatography Mass Spec (LC/MS) Nuclear Magnetic Resonance(NMR) Affinity Chromatography Polymerase Chain Reaction(PCR) Gas Chromatography(GC) Titrations, Extraction and Recrystallization Information Technology(IT)/Computer skills 3d model creation and animation with maya and blender Video editing and creation using premiere Web mining using perl scripts for data collections and interactive display Ensured that application modifications conform to user needs and expectations.

Writes test scripts in support of upgrade, new development and testing initiatives and scripts to aid help Desk support of the application.

Analyzes log files and prepares reports.

Performs day to day maintenance which includes configuration and maintenance of servers, applications, sites, and active directory environment.

Manages licenses, security, and provisioning of software and pool hardware resources.

Handles backup and recovery requests.

Interacts with technical partners to identify challenges and solution opportunities.

Supports business partners with development, testing, and integration of technologies.

EDUCATION BACKGROUND Bachelors degree class 2010 in Bioinformatics from the University of California, Santa Cruz Jack Baskin School of Engineering 1156 High Street Santa Cruz, CA 95064 (831) 459-2158.

High School Diploma class 2005 from Live Oak High School 1505 East Main Avenue Morgan Hill, CA 95037 - (408) 201-6100.

PROGRAMING/COMPUTER EXPERIENCE AND APPLIED SKILLS Experience with Web Development on IIS and Apache Experience with Perl, PHP, Python Familiar with Java, C++, R, MatLab, compute languages and Weka Machine Learning Package Built and worked with Databases using PostGres/MySQL Able to work with Excel spreadsheets and other Office/ Presentation software.

Experience on Linux, Unix, OSX and Windows platforms Self motivated and always willing to listen and learn.

Excellent oral and written communication skills gained from attending professional seminars with the MARC/MBRS and Southern California Bioinformatics Institute where i contributed to Bioinformatics research labs and presented my work at the undergraduate symposium Ability to handle and prioritize multiple assignments while doing an internship with the Cal-teach program.

I was able to observe and report classroom behavior and teacher student interactions at a local high school while recording my daily logs on the online portal about classroom management and keeping the students attention.

Excellent interpersonal skills and the ability to work well with a diverse set of people including Computer Scientist, Biologist, Chemist, Electrical and Computer Engineers Conducted research in Chemistry, Biology, Immunology, Biochemistry, Neurobiology, Laboratories.

Excellent attention to detail Flexibility to work long and irregular hours.

As a graduate from the University of California Santa Cruz (UCSC), I have conducted research at UCSC and Caltech through the Southern California Bioinformatics Institute and MARC/MBRS programs. I also received professional training in presenting scientific documents and reports.

Operate material handling equipment (e.g powered industrial trucks, pallet rider and TRT) to load and unload materials .

Examining products to verify conformance to quality standards by following SOPs and reporting any damaged product to supervisor immediately.

Follow Good Manufacturing Practices (GMP's) and safety guidelines at all times.

Maintain accurate inventory balances by executing proper storage, FEFO, movement, consumption, and counting processes

Key appropriate inventory adjustments to add, modify, or delete inventory in the NAV system to ensure ongoing accuracy.

Analyze pick and put away error data to determine root causes with the supervisor of Inventory Supervisor.

Help to implement and enforce new processes put in place by management.Receiving incoming product to NAV System.

Processed vehicle registration, driver's license, and occupational license applications.

Helped examiners with vehicle verification, testing visuals and knowledge examinations.

conduct attendance, inventory and other human resource related reports

Communicated within the department via pc, phone and fax.

review of possible fraudulent documents for AB 60 applicants, Driver suspensions and reinstatement, Admin per Se, commercial licensing.

Processed reports involving liens, salvage or dealer transactions.

Assisted Students and Teachers at a High School.

Attended a weekly seminar discussing classroom management and improving student interactions.

Bi-weekly I assisted teaching in Aptos High School in a Biology Classroom.

I recorded an hourly written journal of each teaching session and each student interaction.

Tutored Students in Computer Networks, in a one on one or small group setting.

Addressed issues arising in network architecture models and conceptual layers, (physical to the application layer), characteristics of transmission media; switching techniques (packet switching, circuit switching), medium access control (MAC) protocols, local area networks; error-control strategies and link-level protocols; routing algorithms for bridges and routers;congestion control mechanisms; transport protocols; QoS, application of concepts to practical wireless and wireline networks.

While a member of a research fellowship I attended a weekly seminar presenting undergraduate research from various fields. I was guided in producing lab reports and presenting scientific findings to a general audience.

Conducted research in Chemistry, Biology, Immunology, Biochemistry,Neurobiology, Laboratories.

My main research consisted of applying backpropagation to the neural networks used to predict protein structure as part of a bioinformatics lab.

Interned at California State University LA in a Bioinformatics Lab.

Trained in mathematical models of statistical learning, Python coding, bioethics, tasked to write a database application for sharing Developmental Biology data.

Attended the Computer Lab course offered to entry level students learning Computer Programming skills.

Assisted students troubleshoot programming assignments in C,Java and basic Unix commands at their workstation.

Instructed students in more advanced topics like data structures and data parsing.

Grade and correct submitted electronic assignments and tests.

Working in a cleanroom class 100 fab.

wearing cleanroom garments/suit required.

Cleaning and handling of fragile parts.

Operating equipment.

Manual manipulation and assembly of small parts.

Monitor equipment and reports problems to supervisor.

Packaging/Shipping in cleanroom environment.

Computer Science Courses / Certifications:

Data Structures, Object Oriented, Java SWING GUI, Machine Learning.

Languages: Java, Javascript, React, Ansi C, C++,C#, Perl, Python, Ruby, SQL, Matlab, R, POWERSHELL.

Operating Systems: UNIX,LINUX,WINDOWS,OSX,ANDROID,IOS.

Self motivated, always willing to listen, learn and follow instructions.

Highly inquisitive, creative and resourceful.

Able to work Extended hours.

Excited by the challenge of research and experimentation.

Ability to adapt and prioritize multiple assignments.

Video editing and creation.

Web mining using applications for data collections and interactive display.

Ensures that application modifications conform to user needs and expectations.

Writes test scripts in support of upgrade, new development and testing initiatives and scripts to aid in Help Desk support of the application.

Analyzes log files and prepares reports.

Performs day to day maintenance which includes configuration and maintenance of servers, applications, sites, and active directory environment.

Develops, maintains and enforces policies and procedures for use and maintenance.

Manages licenses, security, and provisioning of software and hardware resources.

Handles backup and recovery requests.

Excellent Understanding of Computer Networks including Ethernet,Wireless and Cellular LANs.

Strong working knowledge of Unix/Linux, Mac OSX and Microsoft Windows operating systems and Internet applications and protocols.

Familiarity with Data communications hardware/software, including routers, switches and firewalls and custom firmwares including Tomato and DD-WRT.

Experience with Perl, PHP, SQL, Python.

Familiar with Java, C++, R, MatLab, Weka Machine Learning Package.

Built and worked with Databases using PostGres/MySQL.

Able to work with Excel spreadsheets and other Office/Presentation software.

Loading and unloading our trucks and stock our own shelves.
Arriving at your scheduled time.
Maintaining a positive enthusiastic customer friendly attitude.
Following company policies, procedures and management direction.
Completing necessary training requirements.
Maintaining a professional appearance and following a company dress code.
Everyday I bring a warm helping smile to any customer who walks in the door. I have no trouble operating and cash register and keeping a balanced till. In the past I've stocked shelves and built displays to promote product awareness.

information on products by researching them in catalog or online database. I arrive early to check in and don't leave until the job is finished. As a professional I know to follow company policy with dressing, grooming standards but I'm not afraid to get my hands dirty helping clean up.

Anything I don't know I can learn quickly by asking the right questions. Anything I need to know I can pick up quickly.

Writes code to create single-threaded or user interface event driven applications, either stand-alone or those which access servers or services. Designs, implements, and tests database schemas. Uses source debuggers and visual development environments. Works with designers and content producers. Writes code to generate web pages, access databases and business logic servers.

The Inventory Control Team Member is responsible for maintaining accurate inventory balances within the internal inventory system through physical inventory counts. Additionally, supporting other daily activities or projects related to the improvement of the inventory department. Our ideal team member will be committed to contributing to our positive culture, and ensuring our customers are delighted with each box ordered.

Complete accurate inventory count sheets and inventory adjustments.
Key appropriate inventory adjustments to add, modify, or delete inventory in the NAV system to ensure ongoing accuracy.
Perform daily, weekly and monthly inventory counts as directed by the supervisor, and as scheduled and investigate and/or correct any issues they arise.
Perform item set up procedures in a timely manner.
Reconcile physical and system records for operations and procurement team.
Perform location and product verification tasks as required.
Monitor and react to issues with products on hold in the QC hold area.
Assist in inventory month end physical count process.
Analyze pick and put away error data to determine root causes with the supervisor of Inventory Supervisor.
Assist management with product staging and warehouse layout.
Encourage teams to drive safety awareness such as ensure formal risk assessments are conducted, hazards are closed, incidents investigated and communicated.
Maintain a safe work environment by establishing, following, and enforcing standards and procedures. Report any hazardous conditions to the assigned supervisor or safety team.
Help to implement and enforce new processes put in place by management.

Ensured guest and employee safety by preventing, investigating and resolving safety hazards, accidents, disturbances, disorderly individuals.

provided excellent service to any public customers, processing vehicle registration, driver license, and occupational license applications conduct attendance, inventory and other human resource related reports as well as communicating within the department via pc, phone and fax.

I have completed internships at UCSC and CalTech in bioinformatics.

I seek to apply that knowledge to the public sector and learn more about public policy and procedures. I have outlined my highlighted skills that make me an excellent candidate for the position and I am very eager to learn and apply practical knowledge as well.

I have led small study groups and even tutored Students in Computer Networks.

My duties included helping students troubleshoot programming assignments in C,Java and basic Unix commands at their workstation. I was able to instruct them in more advanced topics like data structures and data parsing. After the lab session I would grade and correct submitted electronic assignments and tests.

I have demonstrated project management skills as a research intern.

While a member of a research fellowship I attended a weekly seminar presenting undergraduate research from various fields. I was guided in producing lab reports and presenting scientific findings to a general audience. My main research consisted of applying back propagation to the neural networks used to predict protein structure as part of the Kevin Karplus lab.

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Grade and correct submitted electronic assignments and tests.

As a member of the grade 5 staffing at Santa Clara, I worked alongside Management Examiners and provided excellent service to any public customers I received. My daily duties involve processing vehicle registration, driver license, and occupational license applications as well as helping examiners with vehicle verification, testing visuals and knowledge examinations. During my Stay in the regional office I was tasked to conduct attendance, inventory and other human resource related reports as well as communicating within the department via pc, phone and fax.

I have demonstrated project management skills as a research intern.

While a member of a research fellowship I attended a weekly seminar presenting undergraduate research from various fields. I was guided in producing lab reports and

presenting scientific findings to a general audience. I also attended a summer research program where I obtained research experience in Chemistry , Biology, Neurobiology; where I wrote and presented scientific data. My main research consisted of applying back propagation to the neural networks used to predict protein structure as part of the Kevin Karplus lab.

With a BS degree in Bioinformatics I have a strong understanding of current computational efforts as well as familiarity with the latest in scientific technology in the research fields. This is not a natural science degree I know, but the skills like strong written and oral communications are vital to presenting your research to others from a mixed background of interdisciplinary sciences; It is these skills that I have focused and fine tuned by attending many professional work related organisation such as: CalTeach, Minority Access to Research Careers, Southern California Bioinformatics institute. I feel that translated my abilities can be refocused and are pertinent to the management and protection of natural and cultural resources.

While a member of Cal-Teach I had the opportunity to work with teachers in a K-12 setting, specifically in the fields of Biology Chemistry and Natural Science. It is this experience that qualifies me to be able to assist and collaborate with education programs that visit the park. I understand that the primary focus will be on younger children in the ages of 3-11, and I believe that I can perform the same teaching duties with a shifted focus toward simplifying and writing engaging material for these developing younger visitors. I am comfortable presenting in a classroom setting while answering questions for students and teachers alike. I have received many compliments on my friendly attitude and positive outlook on engaging students in classroom activities.

When operating in an office environment I was trained in a variety of useful computer techniques that can help provide technical support or build interactive programs. This is an area in which I have advanced knowledge that can be adapted to everyday use and communications including written reports or visual materials for teachers and staff.

Programming both new applications and quality checking.

Network administration and development.

Database creation and migrations .

Process improvement and documentation.

SDS Page.

Gel Electrophoresis.

Protein Purification.

Liquid/Gas Chromatography.

Mass Spec (LC/MS).

Nuclear Magnetic Resonance(NMR).

Titration.

Affinity Chromatography.

Polymerase Chain Reaction(PCR).

Gas Chromatography(GC).

Extraction and Recrystallization.

LIBRARIES / SERVICES: ANACONDA, VMWARE, AWS, GOOGLE COLAB, DOCKER, JUPYTER NOTEBOOK, GITHUB, RSTUDIO, NUMPY, BEAUTIFUL SOUP, PANDAS,

SCIKIT-LEARN, TENSORFLOW, PYTORCH, CUDA TOOLKIT, CUDNN, WIRESHARK, MKL, PIP, 7ZIP, ZLIB, HYPER-V, SSH.

Interacting With Computers — Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.

Thinking Creatively — Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.

Analyzing Data or Information — Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.

Processing Information — Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.

Updating and Using Relevant Knowledge — Keeping up-to-date technically and applying new knowledge to your job.

Getting Information — Observing, receiving, and otherwise obtaining information from all relevant sources.

Identifying Objects, Actions, and Events — Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.

Interpreting the Meaning of Information for Others — Translating or explaining what information means and how it can be used.

Communicating with Persons Outside Organization — Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.

Organizing, Planning, and Prioritizing Work — Developing specific goals and plans to prioritize, organize, and accomplish your work.

Documenting/Recording Information — Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.

Communicating with Supervisors, Peers, or Subordinates — Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.

Monitor Processes, Materials, or Surroundings — Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

Estimating the Quantifiable Characteristics of Products, Events, or Information — Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.

Training and Teaching Others — Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.

Coordinating the Work and Activities of Others — Getting members of a group to work together to accomplish tasks.

Judging the Qualities of Things, Services, or People — Assessing the value, importance, or quality of things or people.

Provide Consultation and Advice to Others — Providing guidance and expert advice to management or other groups on technical, systems-, or process-related topics.