Kayvon Heravi

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EDUCATION

University of California, San Diego   **San Diego, CA**
MS in Computer Science   *Expected Graduation: Spring 2023*
Specialization in Database Systems

- Awarded Teaching Assistant position Fall 2021, Winter 2021, Spring 2022

University of Nevada, Las Vegas   **Las Vegas, NV**
BS in Computer Science   *Degree Awarded: December 2020*

- Cum Laude
- Dean's List every semester
- 1st place in Computer Science Department, Fall 2020 Senior Design Awards

EXPERIENCE

University of California, San Diego   **La Jolla, CA**
Teaching Assistant CSE11/CSE15L   *Sept 2021 - Present*

- Lead T.A for CSE15L Spring 2022
- Teach lecture material to on average 60 students a session
- Tutor and aid students during office hours
- Create programs to aggregate student participation and lab completions
- Grade exams and assignments
- Lead lab sessions in person and remotely
- Supervise and work with groups of tutors

Napa Valley Education Foundation   **Napa Valley, CA**
Python Instructor   *August 2021 - Present*

- Give students a basis of computer science knowledge through Python
- Create lesson plans and homework assignments
- Tutor and aid students during office hours
- Grade Assignments

Mission Support and Test Services   **Nellis Air Force Base, NV**
Cyber Security Intern   *May 2019 - Dec 2019, Summer 2020*

- Utilize cyber security tools to analyze vulnerabilities and run compliance scans at Emergency Communications Network/Department of Energy(ECN/DOE)
- Procurement and testing of necessary tools to aid the Cyber Security Team
- Weekly testing to find and analyze anomalies detected on the network

Private Tutor   **Las Vegas, NV**
Tutor   *Sept 2017 – Present*

- Tutored various students in subjects such as C++, java, python, and x86 assembly language programming

Institute of Executive Development   **Las Vegas, NV**
Intern   *Jul 2018 – Oct 2018*

- Managed office duties and learned key office skills at Institute of Executive Development
- Assisted with preparing presentations and creating activities for coaching retreats

Dignity Health St. Rose Hospital   **Las Vegas, NV**
Volunteer   *May 2014 – May 2017*

- Worked Front Desk helping and greeting visitors while taking phone calls from nurses
- Ran errands for nurses such as discharging patients, organizing papers, and any other needed help

Database Systems Coursework

CSE 233 Database Theory |UCSD| *Spring 22*
- Theory of Query languages
- Connections to logic and complexity theory including finite model theory and descriptive complexity
- Dependency theory
- Conjunctive Query Minimization
- Datalog

CSE 132C Database Theory |UCSD| *Spring 22*
- Implementations of an RDBMS
- data storage, buffer management, indexing, sorting, relational operator implementations, query optimization, and transaction management and concurrency control were covered in detail.
- Implementation of newer Big Data systems such as Spark and MapReduce/Hadoop, as well as distributed NoSQL/key-value stores and in-memory RDBMSs.

CSE Database Systems: Advanced Topics and Implementation|UCSD| *Winter 21*
- Wrote an engine for XPath, a sub language of XQuery. Implement visitors and create a tree structure of absolute path and relative path for querying an XML file

CSE 232A Graduate Database Systems|UCSD| *Fall 21*
- Learned about query optimization, transaction management, indexing, and locking

CS 457 Database Management Systems|UNLV| *Fall 20*
- Learned about relational and tuple algebra
- Created databases in mariaDB and created programs using SQL to return correct queries

Machine Learning Coursework

CSE 234 Data Systems for Machine Learning|UCSD| *Fall 21*
- Researched and co-wrote a paper on a profile analysis of Ivadomed's deep learning pipeline
- Read published papers and wrote summaries of machine learning systems such as Parameter Server, XGBoost, Tensorflow, TVM, Cerebro, Deequ

CSE 489 Advanced Computer Science Topics (Machine Learning)|UNLV| *Fall 20*
- Created Python programs and reports on running machine learning algorithms on a real dataset from UCI Machine Learning Repository's online archive
- Following programs were created: OLS, Gradient Descent, Logistic Regression, KNN, MLP Classifier, and MLP Regressor

CS 458 Introduction to Data Mining|UNLV| *Spring 20*
- Computing and plotting linear regression and gradient descent with Python programming
- Implemented a hidden markov model in Python
- Implemented machine learning tools to find patterns such as good movie reviews and acronyms and their definition in large files

PROJECTS

Profile Analysis, Scalability, Usability of Ivadomed - Research Project|UCSD| *Sept 2021 - Dec 2021*
- Test the efficacy of a deep learning pipeline that streamlines the creation of models related to medical imaging tasks with partner for a research project in Data Systems for Machine Learning
- Presented the results of experiments to a workshop available to all CSE students and faculty
- Co-wrote a paper summarizing the research process

Mobile Game App - Senior Design Awards|UNLV| *Sept 2020 - Dec 2020*
- Created a stacking mobile game in a team for a capstone project using C# and Unity
- The game "Devour the Tower" won first place in the Fred and Harriet Cox Senior design project, Fall 2020 computer science department and still available in app stores

ADDITIONAL

- Computer Languages Learned at UNLV: C++ • Java • Python • Assembler (Intel x86, MIPS) • SQL
- Computer Languages learned at UCSD: Go
- Computer Languages Self Taught: R • C# • HTML
- Computer Systems: Mac • Windows • Linux
- Relevant Coursework: Database Systems • Machine Learning • Analysis of Algorithms • Data Mining• Data Structures • Compilers • Systems Programming