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| **Contact**  Free Blue Phone Vector Art - Download 82+ Blue Phone Icons & Graphics -  Pixabay (415) 770-4769  Email Generic Flat Gradient icon  allui.3011@berkeley.edu  **Skills**  Languages: Python, Java, C, R, RISC-V, SQL  Software: Fusion 360, Excel  **References**  Available upon request | **Education**  **University of California, Berkeley**  *Computer Science, and Molecular and Cell Biology*  Expected Graduation: May 2025, GPA = 3.5  **Relevant Coursework**   |  |  | | --- | --- | | * CS 61A – Structure & Interpretation of Computer Programs * CS 61B – Data Structures * CS 61C – Great Ideas in Computer Architecture (Machine Structures) * CS 70 – Discrete Mathematics and Probability Theory * EECS 16A – Designing Information Devices and Systems 1 | * CS 127 – Optimization Models in Engineering * CS 170 – Efficient Algorithms and Intractable Problems * CS 189 – Introduction to Machine Learning * Biology, General Chemistry, Organic Chemistry, Genomics and Genetics |   **Project Experience**  **Gitlet**   * Developed a version control system in Java that mimics the basic features of Git * Implemented serialization to store file versions and different version branches * Enabled ability to organize files better and in a more linear version offline without Git   **Parallel Processing and Optimization**   * Developed and optimized parallel algorithms and utilized multi-core processors and parallel computing frameworks * Designed and implemented a parallel processing solution for complex problem solving, significantly improving computational efficiency of computing arithmetic expressions   **Neural Networks**   * Designed and implemented a deep neural network model for image classification, achieving an accuracy of over 95% on a challenging dataset. * The model consisted of multiple convolutional and fully connected layers, and fine-tuned hyperparameters to optimize its performance.   **Internship Experience**  **University of California, Irvine** January 2023 – present  *Research Intern, School of Medicine*   * Developed program in R to optimize the efficiency of sorting and dissecting large datasets * Collaborated to identify key variables and data points to discover trends and patterns   **San Francisco State University** June 2018 – June 2021  *Research Intern, School of Engineering*   * Designed 3D models in Fusion 360 used for structural engineering research of beams * Investigated and evaluated different material types of elastic and rigid polylactic acid (PLA), a plant-based, biodegradable plastic, materials for 3D printing models |