

Aarin Salot

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EDUCATION

University of California, Berkeley

Aug. 2021 – May 2025

B.A. Computer Science, B.A. Data Science; GPA: 3.97/4.00

Regents' and Chancellor's Scholar: Merit-based scholarship for the top 2% of undergraduates at UC Berkeley

Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Machine Structures, Foundations of Data Science, Discrete Mathematics and Probability Theory, Structure and Interpretation of Programs

EXPERIENCE

AeroVironment Inc.

May 2023 – Present

Software Engineering Intern

Simi Valley, CA

- Streamlined daily regression testing with C#, Python, HTML, Batch Scripts, and VMs through autonomous repository updates, filtering 8100+ tests, enhanced logging, and automated failure notification emails

Electrical Engineering and Computer Sciences Department

Feb. 2023 – May 2023

Academic Student Employee

Berkeley, CA

- Taught students Data Structures and Algorithms through discussion, forum, exam review, and Office Hour sessions
- Proctored exams, graded homework, debugged student code, and performed quality checks on course materials

Clarity Technologies

Jan. 2023 – May 2023

Student Consultant

Berkeley, CA

- Built front-end for Alzheimer's research platform using HTML, CSS, and React.js to display clinical trial metrics
- Linked dynamic pages with React Router for password protection, trial selection, settings, and treatment recording

EXTRACURRICULARS

Neurotech@Berkeley

Sept. 2022 – Present

Software Engineer

- Created EEG-based visual communication platform in Python with GPT-J to assist users with speech impairments
- Improved user accuracy by 10% by refactoring front-end using PyQt5, eliciting odd-ball paradigm through displaying different colored response options, and examining P300 decision making signals

Computer Science Mentors

Sept. 2022 – Present

Senior Mentor (Dec. 2022 - Present) | Junior Mentor (Sept. 2022 - Dec. 2022)

- Led small group tutoring lectures about Data Structures and Algorithms, receiving a 4.5/5 rating
- Guide Junior Mentors on teaching skills through direct feedback, structured workshops, and section shadowing
- Advise coordinators on club structuring, plan review sessions, quality check worksheets, and create topical guides

PROJECTS

SnapCycle | JavaScript, Vue.js, Python, Flask

- Developed Vue.js and Flask web application utilizing device camera input for recycling recommendations
- Integrated Salesforce's BLIP for image classification and ChatGPT for personalized recommendations
- Recognized with the "Most Sustainable Project" award at AECtech LA hackathon

Matrix Convolutions | C, OpenMP, Open MPI, Intel Intrinsics

- Explored parallelism through 2D Matrix Convolutions, achieved a 7.9x speedup over single threaded performance using OpenMP multithreading and Intel SIMD instructions, 2.6x speedup using multiple processes with Open MPI

Gitlet | Java

- Miniature version of Git that can create and switch between branches, merge branches with both fast-forward and three-way merge options, solve merge conflicts, view commit history, and undo certain commit actions
- Stored commit history as a directed acyclic graph, with commits represented as nodes containing serialized versions of files at the time of commit and relevant metadata such as commit messages and parent commits location

PROGRAMMING SKILLS

Languages and Frameworks: Python, Java, C, C++, C#, HTML, CSS, JavaScript, React.js, Vue.js, SQL, Scheme

Tools and Testing: Git, SVN, Jira, OpenMP, Open MPI, Regex, IntelliJ, Visual Studio, JUnit, Valgrind, CGDB