

Alan Chiem

510 230 7137 | alanchiem@berkeley.edu | [linkedin.com/in/alan-chiem](https://www.linkedin.com/in/alan-chiem) | github.com/alanchiem

EDUCATION

University of California, Berkeley

Berkeley, CA

Bachelor of Arts in Computer Science

Aug. 2019 – May 2023

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Artificial Intelligence, Efficient Algorithms and Intractable Problems, Software Engineering, Computer Graphics, Database Systems

SKILLS

Programming: Python, Java, C, Swift, SQL, HTML, CSS, JS

Developer Tools: Git, VSCode, XCode, IntelliJ

Languages: English, German, Japanese, Vietnamese

EXPERIENCE

Mobile Developer Intern

Jul 2022 – Sep 2022

PlayPart

Remote

- Enhanced implementation and development of native **iOS** sports app that raises environmental awareness.
- Worked on bugs, documentation, and tests in order to unblock team and increase their performance.
- Learned basics of **Ruby-on-Rails** through educational Udemy course provided by company.

PROJECTS

Volumetric Scattering | C, CLion

tinyurl.com/CS184Project

- Collaborated with small team to implement **pathtracer** that can render scenes containing participating media such as fog, smoke, or dust.
- Troubleshooted with various problems dealing with number of light bounces and ray termination.
- Built website using **HTML** to extensively document entire process in detail.

Watr | Swift, Xcode, Lottie Animation

tinyurl.com/IOSwat-r

- Designed and developed **iOS** productivity app which visually tracks time with water.
- Integrated LottieFiles API to provide minimalist animations using **Swift** and Xcode.
- Constructed interesting and unique way for users to track the amount of time they spend on tasks.

Notes | Postman, MongoDB, Express, AlamoFire

tinyurl.com/ACnotesapp

- Implemented **CRUD** (create, read, update, and destroy) functionality for notes app.
- Set up my own **Mongo database**, web server and API endpoints using Express JS.
- Experimented using different new technologies on lightweight **full-stack** application.

Pacman AI / Neural Networks | Python3

tinyurl.com/CS188Projects

- Programmed Pacman using AI concepts such as informed state-space search, probabilistic inference, and **reinforcement learning**.
- Extended alpha-beta pruning logic appropriately to multiple minimizer agents and implemented expectimax agent for sub-optimal adversaries.
- Trained **neural network** to classify hand-written digits and another to identify various languages.

ADDITIONAL EXPERIENCE

Professional Guitarist

Sep 2022 – May 2023

Jaidon

San Francisco Bay Area

- Performed around cities in San Francisco Bay Area as lead guitarist in indie-rock band.
- Established **quality teamwork** with band mates to achieve desired sound for each performance.
- Entertained live crowds upwards of 50+ people each night with **confidence**.

Swim Coach

Aug 2022 – Feb 2023

UC Berkeley Department of Recreational Sports

Berkeley

- Instructed beginner swim classes for children ages 5 - 10 at UC Berkeley's Strawberry Canyon pool using **patience** and **actively listening** to students.
- Led beginner swim classes for adults with **effective communication** and **friendliness**.
- Created **positive**, fun, and engaging learning environment for all, while also maintaining water safety.