

Athan Chan

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Education

University of California, Berkeley

Bachelor of Arts, Computer Science (GPA: 3.625)

Berkeley, CA

May 2022

Relevant Coursework: The Structure and Interpretation of Computer Programs, Data Structures, Designing Information Devices, and Systems I, Algorithms, Great Ideas in Computer Architecture, Efficient Algorithms and Intractable Problems, Machine Structures, Introduction to Teaching Computer Science, Probability and Random Processes, Designing Information Devices and Systems II, Principles and Techniques of Data Science (IP)

Skills

Computer Programming: Java, Python, SQL, NoSQL, Tableau, C, Android Studio, React Native

Language: Cantonese (fluent), French (proficient)

Objective: Actively recruiting for an internship to further develop my software development skills. A team player and a quick learner. Takes charge of projects and seeing them to completion.

Work Experience

Amazon

May 2020 - Aug 2020

Software Development Engineer Intern

Remote

- Engineered a data beacon packet exchange with Bluetooth Low Energy (BLE) scanner and advertisement
- Utilized a SHA-512 encryption scheme to protect customer data for Bluetooth project proof-of-concept
- Designed UI screens using Stylesheets that bridge API calls between the Native and React Native frameworks
- Integrated a DynamoDB database with the Android Alexa app to store encrypted customer information
- Built automation scripts using Java via Mockito and JUnit tests to streamline QA in team's CI/CD process
- Constructed a design document and final presentation for department directors for project continuation

UC Berkeley Computer Science Department (2 courses)

June 2019 - May 2020

Academic Tutor

Berkeley, CA

- Taught EE16A (Designing Information Devices and Systems I) and CS61B (Data Structures) as a sophomore
- Led 30-people student sections to assess their comprehension and to mentor them on areas of development
- Collaborated with other tutors to improve and develop new teaching strategies based on student feedback

Cool Climate, UC Berkeley

Jan 2019 - May 2019

Data Visualization, Research Intern

Berkeley, CA

- Designed and created visualizations with Tableau of DMV vehicle data to guide public policy decisions

HealthSherpa

Dec 2017 - Aug 2018

Marketing/Operations Intern

San Francisco, CA

- Automated client effectuation data collection via a Ruby script to assist company's quarterly revenue planning
 - Developed SQL scripts to extract and analyze data from MySQL database to analyze revenue growth
 - Created effective email marketing campaigns to increase consumer awareness of health insurance options to drive adoption
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Projects

Simple World Creator

Apr 2019 - May 2019

- Designed pseudo random world generator with the Random class in Java
- Utilized keyboard (wasd) to move the avatar and mouse x and y coordinate to identify the block type
- Devised a save functionality and replay functionality with Java Serializable interface

Bear Maps

Mar 2019 - Apr 2019

- Designed a KD Tree to have the retrieval of the closest point as log N amortized
- Accelerated search time of the name of a place with a Trie to improve the efficiency by 500 ms
- Implemented a rasterized maps of Berkeley so the user can have a better image when zooming in