Justin Chiu

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EDUCATION

University of California, Davis   Expected Graduation June 2025
- **B.S. in Computer Science**, GPA: 3.5
- Relevant Coursework: Algorithms, Data Structures, Operating Systems, Machine Learning, AI, Web Programming, Computer Architecture, Programming Languages, and Statistics.

SKILLS

Languages:	Go, Python, C++, MySQL, JavaScript, HTML/CSS, Bash, Groovy, Java, C, R
Frameworks:	Pytest, React.js, Node.js, Angular, Django, Flask, Celery
Tools:	Docker, AWS, Github, bash, pdb, Jupyter Notebooks, VS Code, g++
Concepts:	Algorithms and data structures, Multithreading, RESTful API Design, SQL/no-SQL DBs, Event-Driven, Architecture, Version Control, Agile/Scrum
OS:	Ubuntu, OS X, Windows

PERSONAL PROJECTS

Napoleonic Wars Social App (ongoing) | *Go, React.js, MySQL, Docker* | backend, frontend
- A full-stack social web application for use of Saturday NA linebattle attendees in *Mount and Blade: Napoleonic Wars*
- Contains a Go backend which leverages Goroutines, channels, thread pools, and an event driven architecture to serve data via API calls.
- Data is stored in the backend through a hybrid approach, using a MySQL server for high volumes of player data, while storing more complex one off data in player folders (things like profile pictures).
- Frontend is made with React.js.

61e Website | *Python, Django, HTML/CSS, JavaScript, Celery* | link
- Website for a gaming community called the 61e using Django.
- Runs a scheduled script to populate data in the leaderboards page.

COURSE PROJECTS

Maze solving AI (group work) | *Python, Flask, JavaScript, HTML/CSS*
- Full stack implementation of the maze game using JavaScript and Flask.
- Led the development of the maze generation Algorithm, as well as testing.

Distributed File System (Unix File System based) | *C++*
- Worked on extending existing source code from the class to implement a UFS like system. Can do simple operations like GET, PUT, and DELETE (for directories and files).
- Created unix-like debugging programs like "ls" and "cat", as well as "bits" to read the bitmaps.

WORK EXPERIENCE

Software Engineer Intern | Xage Security | *Pytest, Docker, Grafana, MySQ*L July 2024 - September 2024
- Integrated performance metric collection as a part of the product testing suite, with the collected data being stored in a MySQL server to be displayed by multiple grafana dashboards.
- Created an upgrade verification tool that compares product data pre and post upgrade, integrated into the testing code as a separate pytest upgrade-verification suite.
- Found and fixed bugs within the automation team's code.
- Wrote scripts to fix issues in deploying the automation team's code such as a version setter to write the actually tested product version into the Jenkins pipeline.

OTHERS

- US Citizen
- Languages: English, Indonesian, Malay, and Chinese
- Hobbies: Piano, Cycling, Running, and Badminton