ANDREW CHEUNG

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EDUCATION

University of Washington, Seattle, WA   *Expected December 2022*

Bachelor's of Science in Computer Science

- GPA: 3.83, Dean's List 8 quarters
- Relevant Coursework: Operating Systems, Systems Programming, Data Structures & Algorithms
- Skills: Java, JUnit, JavaScript, React, Node, Python, C++, gdb, git, Linux

EXPERIENCE

Section Lead Teaching Assistant, University of Washington, Seattle   *September 2019—Present*

- Teach weekly class of 25 students in introductory Java and object-oriented design principles
- Lead weekly meetings with course faculty on teaching strategies to prepare staff for their sections
- Demonstrate debugging strategies to novice programmers in weekly office hours, improving coding independence
- Collaborate with team of TAs to compose classroom resources, ensuring consistent instruction standards

CSE 142 Autograder Developer, University of Washington, Seattle   *August 2021—Present*

- Collaborate with course staff to create automation tool for weekly grading and feedback of code
- Develop static analysis tool in Python which creates and parses syntax trees on submitted Java code
- Maintain code correctness and quality with CircleCI, Pytest, and ReadtheDocs

Front End Web Developer, Rainy Dawg Radio, Seattle   *November 2019—December 2020*

- Assisted team in relaunch and maintenance of student-run radio website by modernizing features
- Adapted features to new framework to abstract security fixes away from staff, allowing team to focus on design
- Deployed several website dependencies using React and Node for the app's social media integration
- Identified and patch security flaws before deployment, preventing leakage of critical API keys

PROJECTS

Intel 8080 Emulator   *August 2021—Present*

- Develop Java simulator of Intel 8080 CPU internals, such as Memory Buses and IO Buffers
- Implement disassembler and debugger for Intel 8080 assembly language
- Write comprehensive JUnit tests to assure convergence of app with Intel 8080 Programmer's Manual

Ninepasta   *June 2021—August 2021*

- Write full-stack web application using MERN stack where users maintain personal glossary of emojis
- Design and implement accessible front-end with dark-mode using React and Chakra-UI
- Deploy and host front-end, back-end, and databases on Heroku, Github Pages, and MongoDB Atlas

Chip-8 Interpreter   *August 2021*

- Created Java interpreter for the Chip-8 assembly language, correctly executing 36 operation codes
- Used modular design principles to maintain organization of CPU, display, and keyboard components