ANDREW ROJAS

andrew.m.rojas@gmail.com (626) 991-1531 github.com/amrojas

Education

Johns Hopkins University – 3.79 Major GPA BS: May 2020, MS: May 2021

- B.S. Computer Science & Math
- Minors in Entrepreneurship & Management, Applied Math & Statistics
- **Selected Coursework:** Operating Systems, Compilers & Interpreters, CS Innovation & Entrepreneurship, Algorithms, Probability & Statistics, Honors Linear Algebra, Honors Calculus

Skills

- **Languages:** C, C++, Python, PHP, Java, SQL, JavaScript
- **Technologies:** Docker, Flask, git, Selenium, Vue.JS, Laravel, REST, Unix/Linux, CUDA

Experience & Leadership

NVIDIA – Software Engineering Intern (Enterprise) May 2019 – Current

- Building Flask service to sync private Docker registry access with active support contracts in Salesforce
- Improving log analysis tool for DGX and Drive Constellation systems to assist customer case diagnosis
- Using string pattern matching and file comparisons to find errors in lspci and dmidecode outputs
- Creating blog posts to demonstrate using NVIDIA pre-trained models with different technologies

Johns Hopkins – Course Assistant (Algorithms) January 2019 – Current

- Grade problem sets and exams, host weekly office hours for students to ask questions

PatientPop – Software Engineering Intern May 2017 – May 2019

- Created data seeding API in PHP for Java Selenium automated tests to speed up release testing by 70%
- Upgraded front-office integration to import "blocked" time slots, increasing booking tool accuracy
- Added CSV data importer to practice campaign building tool, in order to boost patient engagement
- Investigated customer issues by parsing log files and database for logic errors in Sikka integration

Association for Computing Machinery – President January 2017 – Current

- Work with CS department to plan community-building and career-development events for students
- Manage cabinet by automating action item reminders, leading board meetings, maintaining wiki

Projects

- **CHIP-8 Emulator:** Building emulator for 8-bit interpreter, including 16 registers, stack, 2 internal timers, hex keyboard input, graphics, sound, and 35 opcodes. https://github.com/amrojas/chip8-emulator
- **XChange:** Developed app to predict restaurant sales using machine-learning in a Python flask app with a Vue.JS frontend. JHU Business Plan Competition 3rd place. https://github.com/amrojas/Xchange
- **PintOS:** Added BSD scheduler, system calls, virtual memory, and filesystem in group project.
- **Viterbi Keyboard:** Soldered ortho-linear keyboard, programmed Arduinos with QMK firmware in C
- **SIMPLE Compiler & Interpreter:** Python emulator targeting ARMv6, implementing lexical analyzer, parser to build symbol table and abstract syntax tree, and optimized assembly code generation.

Interests: PC gaming, building mechanical keyboards, tennis, trying new music, cooking and baking, watching movies