ANDREW ROJAS

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Education

Johns Hopkins University | B.S. Computer Science & Math — BS: May 2020, MS: May 2021

- Major GPA: 3.79 / 4.0
- Minors: Entrepreneurship & Management, Applied Math & Statistics
- **CS:** Operating Systems, Compilers & Interpreters, Algorithms, Innovation & Entrepreneurship
- **Math:** Elementary Number Theory, Abstract Algebra, Probability and Stats, Complex Analysis
- **Current:** Machine Learning, Optimization, Combinatorics & Graph Theory in CS

Skills

- **Languages**: C, C++, Python, PHP, Java, SQL, JavaScript
- **Technologies**: Docker, git, CUDA, gdb, Unix/Linux, REST APIs, regex

Experience & Leadership

NVIDIA | SWE Intern (Enterprise Experience team) — May 2019 – August 2019

- Built Salesforce synchronization service to simplify firmware upgrade experience
- Automated engineering workflow by deploying DGX system analysis tool for customer support cases
- Integrated analysis tool with in-house NVBug tool and Salesforce in order to help customer support
- Presented projects with live demos and explanations to make sure tools are maintainable after summer

Johns Hopkins University | Course Assistant — January 2019 – Current

- Spring 2019: Algorithms, Fall 2019: Operating Systems
- Grade problem sets and exams, host office hours

PatientPop | SWE Intern (Integrations team) — May 2017 – May 2019

- Speeded up release testing by up to 70% by creating data seeding API along with OOP interface
- Created full-stack system to support new appointment type for Sikka-integrated customers
- Fixed customer-reported data-sync bugs by analyzing logs, DB history, and partner APIs
- Designed end-to-end tests with Twilio API to prevent manual testing of phone-call tracking features

JHU Association for Computing Machinery (ACM) | President — January 2017 – Current

- Plan career-development and community events with department and Women in CS (WiCS)
- Serve as Site Director for the Mid-Atlantic ICPC competition hosted at JHU
- Also Serving as Vice-President for UPE (Upsilon Pi Epsilon) CS honors society

Projects

- **CHIP-8 Emulator:** Writing 8-bit interpreter emulator (C) with graphics, sound, and keyboard input (SDL library) as a warm-up for building a Gameboy system emulator.
- **PintOS:** Added BSD scheduler, systems calls, virtual memory, and inode file system to a simple kernel.
- **XChange:** Machine-learning app (Python, Flask, Vue.JS) that predicts restaurant food needs based on past sales, weather, time of year and local events to combat national food waste and optimize restaurant revenues. **3rd place JHU Business Place Competition**
- **"SIMPLE" Compiler & Interpreter:** Implemented lexical, syntactic, and semantic analysis, interpreter, simple and optimized assembly code compilation, and stack-based procedures, targeting ARMv6
- **Viterbi:** Assembled ortho-linear keyboard, programmed with open-source QMK firmware