

Paul Serbanescu

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Education

Georgia Institute of Technology

Bachelor of Science in Computer Engineering, GPA: 3.28

Atlanta, GA

Aug 2024 — May 2027

Binghamton University - Watson College of Engineering

Transfer with 62 Credit Hours, GPA: 3.91

Binghamton, NY

Aug 2023 — May 2024

Skills

Programming: Java, Python, C, C++, Swift, SwiftUI, HTML/CSS, React, Next.js, JavaScript, TypeScript, Verilog, VHDL

Software: Git, Xcode, Android Studio, Blender, Onshape CAD, Adobe Products, NI LabVIEW, Intel Quartus Prime

Hardware: Intel DE-10 Standard FPGA, RISC-V, Nangate45, Oscilloscope, Teensy, Raspberry Pi, Beaglebone, Soldering

Work Experience

Amazon

Jr Software Development Engineer

Atlanta, GA

May 2025 — Present

- Designed API consolidating complex downstream logic into single response, eliminating client-side selection complexity.
- Led comprehensive refactoring initiative decoupling tightly coupled components for more maintainable and extensible code.
- Established vital system configurability and experimentation capabilities by implementing feature flags and A/B testing.

Georgia Tech Department of Chemistry and Biochemistry

Team Lead, Software Engineer

Atlanta, GA

Aug 2024 — Dec 2024

- Built online laboratory simulation webpage by integrating Three.js, Next.js, and React to build frontend components.
- Led team of 6 to establish Git workflows pipelined to Plesk hosting platform to serve Node.js site on university domains.
- Focused on accessibility and UI/UX for ease of use optimized for target audience, communicating with faculty for feedback.
- Achieved a 10-second reduction in loading times through a 500% reduction in asset size and migration to Next.js framework.

Stuy Schedule App

Creator, iOS Developer

New York, NY

Jan 2022 — Jun 2024

- Developed a scheduling utility app for high school students, accumulating over 3,700 downloads and 1,000+ daily users.
- Used Swift and Xcode to develop multiplatform versions published to the Apple App Store through App Store Connect.
- Created accompanying JSON API serving updated information to users, intelligently downloading data to reduce overhead.
- Integrated the latest iOS 16 features in Swift and SwiftUI, including home and lock screen widgets with live updated info.

Extracurricular Experience

Binghamton University Mars Rover Team

Firmware Developer

Binghamton, NY

Sep 2023 — May 2024

- Interfaced with rover subsystems using localized Teensy microprocessors to send commands over CAN using C++ code.
- Debugged all firmware systems, referring to documentation for non-trivial issues, and fixed CAN communication issues.

First Tech Challenge Stuy Fission Robotics Team

Vice President, Head of Software Engineering

New York, NY

Aug 2021 — Jun 2023

- Guided the team in technical discussions, including hardware and software, and delegated tasks among small groups.
- Planned community events, robot showcases, lab tours, fundraising of over \$2,000, and operated robot during competitions.
- Managed team budget of \$4,000 and negotiated with school administration a \$1,000 budget increase over the prior year.
- Developed robot control systems using Java, including teleoperated and autonomous modes with OpenCV and TensorFlow.
- Created a Java code library (FissionLib) which was published through JitPack and open-source to all teams on GitHub.

Personal Projects

Zephyr

CPU built in Verilog

Atlanta, GA

Oct 2023 — Present

- Architected an 8-bit CPU with 4 registers, 16 words of program memory, ALU, program counter, and instruction register.
- Integrated an RTL-to-GDSII flow to produce a fabrication-ready design on the Nangate45 platform with placement macros.