

Isaiah Gamble

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science - GPA 3.82/4.0

Graduating May 2026

- Concentrating in *Embedded Devices & Systems and Architecture*
- Relevant Courses: Data Structures & Algorithms, Computer Organization, Computer Systems & Networking

EXPERIENCE

MongoDB

Jun. 2024 - Aug. 2024

Software Engineer Intern

New York City, NY

- Worked with the Cloud Payments Team to ensure the consistency of payment data by designing and implementing automatic Jira issue creation for job failures using *Java*
- Developed API endpoint to run specific jobs, expediting post-fix testing and automating Jira issue resolution
- Wrote unit tests, integration tests, and third-party tests that interface with Jira using *JUnit*

Secure Process Intelligence

Jun. 2023 - Jun. 2024

Software Engineer Intern

Fort Mill, SC

- Created two internal tools with *Rust*, *React.js*, and *TypeScript* which increased productivity by reverse engineering proprietary solutions for our workflow
- Programmed a microcontroller, using *C* and *Rust*, which uses Modbus to extract data from a monitoring device
- Interfaced with a 4G LTE modem over UART to send collected data to a dashboard for customer viewing

Self-Employed

Dec. 2021 - Jul. 2022

Freelance Software Developer

Remote

- Architected and implemented full-stack web applications using *Node.js*, *React.js*, *Docker*, and *AWS*
- Created a web application for a trucking company using *React.js*, *Next.js*, *Nest.js*, *Nginx*, and *PostgreSQL*. Stored information for thousands of complex loads and is critical to their operations

PROJECTS

Genius Dashboard | *React*, *TypeScript*, *Rust*, *Pub/Sub*

- Solved flaws in an existing robot dashboard application while improving user experience and performance
- Improved memory usage by 50% and CPU usage by 70% over the old dashboard
- Designed a free-form drag-and-drop interface for creating custom user dashboards

Robotics Scouting | *React*, *TypeScript*, *Next.js*, *MongoDB*

- Created a webapp to collect data from matches at robotics competitions. Has auth and data analysis tools
- Enabled our team to make informed, data-driven decisions during competitions

ESP Spotify Display | *Embedded*, *Rust*

- Created an embedded project that shows what I'm listening to on Spotify through an *AWS Lambda* function
- Uses the SPI peripheral to communicate with and FreeRTOS's tasks for non-blocking updates to the screen

Oxide | *Linux*, *Docker*, *Rust*, *Embedded*

- Developed a custom frontend for a Nintendo GameBoy emulator
- Streamlined *UX* for ease of use with optimized sleep mode & fast start-up
- Interacts with low-level *Linux* APIs such as *ioctl* and */dev*

ADDITIONAL EXPERIENCE AND AWARDS

Provost Scholarship: Prestigious merit scholarship awarded to 60 out-of-state students, from a pool of thousands

VIP Member: Member of the Intelligent Digital Communications VIP on the Systems and Operations subteam

Hacklytics 2024: Placed 2nd in the sports track and 3rd in the healthcare track, against 200 other submissions

TECHNICAL SKILLS

Languages: TypeScript, HTML, CSS, Java, C, Rust, SQL, Python, Bash

Frameworks: React, Node.js, Next.js, Nest.js, PostgreSQL, MongoDB, JUnit, Material-UI, ESP-IDF, FreeRTOS

Developer Tools: Linux, Git, GitHub, Docker, AWS, Google Cloud Platform, VS Code, IntelliJ, Agile, Jira