Isaiah Gamble

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EDUCATION

Georgia Institute of Technology Atlanta, GA

Bachelor of Science in Computer Science - GPA 3.6/4.0 *Graduating May 2026*
- Concentrating in *Embedded Devices* & *Systems and Architecture*

EXPERIENCE

MongoDB Jun. 2024 - Aug. 2024

Software Engineer Intern: Product *New York City, NY*
- Will be working with the Billing and Payments Team under Atlas Core Engineering

Secure Process Intelligence Jun. 2023 - Present

Software Engineer Intern *Fort Mill, SC / Remote*
- 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 to send collected data to a dashbaord 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*
- Used to collect data from matches at robotics competitions. Implements authentication 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 the screen
- Uses FreeRTOS's tasks/threads to achieve non-blocking updates to UI

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: A highly prestigious merit scholarship awarded to 60 out-of-state students, from a pool of thousands
Club Founder: Founded Students Organizing for the Adoption of Rust at Georgia Tech
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
Developer Tools: Linux, Git, GitHub, Docker, AWS, Google Cloud Platform, VS Code, IntelliJ, Agile