

# Isaiah Gamble

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## EDUCATION

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### 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

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### MongoDB

Jun. 2024 - Aug. 2024

*Software Engineer Intern: Product*

*New York City, NY*

- Worked with the Billing and Payments Team under Atlas Core Engineering
- TBD
- TBD

### 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 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

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### 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

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**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

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

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

**Developer Tools:** Linux, Git, GitHub (Actions), Docker, AWS, Google Cloud Platform, VS Code, IntelliJ