CHRISTOPHER DAVID GOGGINS

202-309-7457 | cgoggins6@gatech.edu | **Interim Secret Clearance** | linkedin.com/in/chrisgoggins | github.com/chrisgoggins

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia   *Expected May 2028*
B.S. Computer Science | Minor: Mathematics | Concentrations: Intelligence & System Architecture   GPA: 4.00

PROFESSIONAL EXPERIENCE

Georgia Institute of Technology, College of Computing   Atlanta, Georgia
Undergraduate Teaching Assistant   *Starting Fall 2025*
- Facilitating weekly recitations, office hours, and grading for 500+ students in a foundational computer science course

Naval Surface Warfare Center Carderock Division   Bethesda, Maryland
Tactical Decision Aids Intern, Naval Research Enterprise Internship Program   *May 2025 – July 2025*
- Refactored underwater acoustic geospatial data rendering microservice exposed through a WMS (Web Map Service) endpoint, resulting in a 58% decrease in runtime and enabling higher-resolution imagery for analysis
- Optimized indexing microservice for underwater acoustic geospatial data by leveraging new hardware capabilities that enabled in-memory and in-process database storage, reducing write time by a factor of 50 and read time by 37%
- Integrated Rust microservices into Kubernetes cloud-native application using Helm charts for templating and Istio service mesh to manage ingress traffic and TLS offloading, targeted for deployment in submarine tactical system

Naval Surface Warfare Center Carderock Division   Bethesda, Maryland
Tactical Decision Aids Intern, Science and Engineering Apprentice Program   *June 2023 – August 2023*
- Developed a web app demonstration for a Vulnerability Decision Aid (VDA) utilizing Lit, Redux, and CesiumJS
- Showcased program progress to the Undersea Warfighting Development Center (UWDC) and kickstarted goal to transition into the submarine tactical system to assist sonar technicians via the Advanced Processing Build (APB)

PROJECTS

gim (Personal) | Rust, crossterm, ratatui   *July 2025*
- Constructed a Vim-style text editor tailored for efficient personal editing, syntax highlighting, and custom shortcuts

JourneyJar (GT WebDev) | TypeScript, MongoDB, Express.js, Next.js, Node.js, Tailwind CSS   *January – April 2024*
- Mentored 7 developers to design and create a social media website for traveling and sharing experiences with friends
- Presented live demo and technical walkthrough of the final product to 100+ club members, leadership, and faculty

Bitescript (GT WebDev) | JavaScript, MongoDB, Express.js, React.js, Node.js, Tailwind CSS   *August – November 2024*
- Teamed with 8 developers to design and create a social media website for restaurant reviews and recommendations
- Crafted authentication and form submission logic to support secure login, account creation, and review posting

GlobeGuesser (Personal) | TypeScript, Next.js, Three.js, MongoDB   *August – December 2024*
- Built website to gamify geography education to foster an engaging learning experience and continuous entertainment
- Utilized Three.js to create an interactive globe featuring visual feedback to user input and customizable settings

BigBot (Personal) | TypeScript, Node.js, Discord.js, SQLite, Docker   *October 2020 – August 2024*
- Designed a multi-use Discord bot that includes an intricate support ticket system, interactive suggestion system, simple moderation system, and miscellaneous utility methods to assist server owners and moderators
- Implemented by several servers totaling over 100k users, fielding 150k support tickets and 25k created suggestions

TECHNICAL SKILLS

Languages: Rust, C++, JavaScript/TypeScript, Python, Java, Scala, HTML/CSS, SQL
Technologies: tokio (Rust), Kubernetes, Docker, Helm, Istio, DuckDB, React.js, Next.js, Redux, Lit, CesiumJS, Three.js, Express.js, SQLite, MongoDB, Tailwind CSS
Developer Tools: Linux (RHEL), Git, GitLab, GitHub, VSCode, IntelliJ Idea, Figma, Jira

ACTIVITIES & AWARDS

- **Phi Kappa Theta Fraternity,** IT Chair   *August 2024 – Present*
- **Georgia Tech Website Development Club (GT WebDev)**, Project Manager   *August 2024 – Present*
- **Georgia Tech Swim Club**, Member   *August 2024 – Present*