ZACHARY JACOBSON

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   **August 2020 – May 2024 (Expected)**
- Bachelor of Science in Computer Science – Concentrations in Intelligence and Systems & Architecture   **GPA: 4.0**
- Coursework: Machine Learning, Automata & Complexity, Operating System Design, Computer Organization & Programming, Data Structures & Algorithms, Systems & Networks, Artificial Intelligence, Perception & Robotics

EXPERIENCE

Amazon Web Services   **Seattle, WA**
Partner Solutions Architect Intern   *May 2023 – August 2023*
- Developed a TypeScript proof of concept for a new version of the AWS EKS Blueprints for CDK Framework with a gRPC API driven approach that enabled partners and customers to develop Infrastructure-as-Code in the language of their choice.
- Created proof of concept gRPC clients in Golang, Rust, and Python.
- Authored technical narrative analyzing different visions for Multi-Language framework. Presented findings to team leadership.
- Addressed 17 customer issues by completing 15 pull requests as a part of the AWS EKS Blueprints open source repositories.

NCR Corporation   **Atlanta, GA**
Software Engineering Intern Team Lead   *May 2022 – August 2022*
Software Engineering Intern   *May 2021 – January 2022*
- Led a team of 5 interns through daily scrums, weekly demos with the Chief Architect of the Retail branch, and a final demo with the CTO of the Retail & Hospitality branches.
- Reduced deployment footprint by over 15 times through development of a shopping cart management microservice in Go using MongoDB on the Google Kubernetes Engine.
- Developed and deployed a Kubernetes in-cluster observability agent to scrape critical resource metrics using Go.
- Projected scalability of observability agent to 20 NCR Customers, 30,000 Clusters, and over 1,000,000 end users.

Gravy Analytics   **Ashburn, VA**
Software Developer Intern   *Summer 2020, Summer 2019, Summer 2018*
- Developed and tested ongoing and historic data retrieval API using Scala, SQL, and Spring Boot.
- Authored Postman Collection to test and showcase API, and educated sales and development team members on API use.
- Developed Spark job using Java that added filtering flags to terabytes of location data.

LEADERSHIP

Sigma Nu Fraternity – Gamma Alpha   **Atlanta, GA**
President   *October 2022 – Present*
- Led 70 member chapter to first "Rock Chapter" award in 5 years as one of the top chapters in the country.
- Enhanced the fraternity's involvement within the campus community by spearheading new chapter initiatives and collaborating with university administration and other student organizations.
- Improved personal leadership skills through attendance at national fraternity leadership institute.

Philanthropy Chairman   *October 2021 – October 2022*
- Organized philanthropy event that raised over $7,000 for the Andrew Collins Project, a student-run non-profit advocating for better mental health services on college campuses.
- Documented processes and best practices as one of the first Philanthropy chairs, enabling future chairs to achieve higher degrees of success.

Other Positions Held: Recruitment Chairman, Risk Reduction Chairman   *January 2021 – October 2022*

American Foundation for Suicide Prevention   **Atlanta, GA**
Outreach Team Leader   *January 2022 – April 2023*
- Raised $13,000 for mental health awareness from local businesses and sign-ups for Out of the Darkness Campus Walk.

SKILLS / INTERESTS

- **Programming**: Go, TypeScript, Rust, Python, C, Scala, Kotlin, Java, Dart, SQL
- **Software**: AWS, AWS EKS, AWS CDK, AWS CloudFormation, AWS EC2, AWS DeepRacer, Google Cloud Platform, Google Kubernetes Engine, Kubernetes, Docker, Linux, GitHub Actions, Apache Spark, Git, MongoDB, MySQL
- **Affiliations**: The Andrew Collins Project, Georgia Tech Club Hockey, Greek Emerging Leader