ZACHARY JACOBSON

[jacobsonzacharym@gmail.com](mailto:jacobsonzacharym@gmail.com) | (703) 303-1215 | linkedin.com/in/zacharyjacobson13 | github.com/zjaco13

# 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.

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## 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.

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*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.

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*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