

# ZACHARY JACOBSON

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## EDUCATION

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

## EXPERIENCE

<b>Amazon Web Services</b>	<b>Seattle, WA</b>
<i>Partner Solutions Architect Intern</i>	<i>May 2023 – August 2023</i>
- 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.	

<b>NCR Corporation</b>	<b>Atlanta, GA</b>
<i>Software Engineering Intern Team Lead</i>	<i>May 2022 – August 2022</i>
<i>Software Engineering Intern</i>	<i>May 2021 – January 2022</i>
- 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.	

<b>Gravy Analytics</b>	<b>Ashburn, VA</b>
<i>Software Developer Intern</i>	<i>Summer 2020, Summer 2019, Summer 2018</i>
- 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

<b>Sigma Nu Fraternity – Gamma Alpha</b>	<b>Atlanta, GA</b>
<i>President</i>	<i>October 2022 – Present</i>
- 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.	

<b>Philanthropy Chairman</b>	<b>October 2021 – October 2022</b>
- 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.	

<b>Other Positions Held:</b> Recruitment Chairman, Risk Reduction Chairman	<b>January 2021 – October 2022</b>
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<b>American Foundation for Suicide Prevention</b>	<b>Atlanta, GA</b>
<i>Outreach Team Leader</i>	<i>January 2022 – April 2023</i>
- 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, Verilog, Scala, Kotlin, Java, Dart, SQL
- **Software:** AWS, AWS EKS, AWS CDK, AWS CloudFormation, AWS EC2, AWS DeepRacer, PyTorch, 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: Captain, Greek Emerging Leader