

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: Operating System Design, Computer Organization & Programming, Data Structures & Algorithms, Design & Analysis of Algorithms, Systems & Networks, Introductory Artificial Intelligence, Introductory Perception & Robotics	

EXPERIENCE

NCR Corporation	Atlanta, Georgia
<i>Software Engineering Intern Team Lead</i>	<i>May 2022 – August 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	
- Developed a shopping cart management micro-service in Go using MongoDB for cloud and in store use	
- Deployed the cart API on the Google Kubernetes Engine using an ingress over HTTPS	
- Reduced deployment footprint from previous shopping cart service by over 15 times	
<i>Software Engineering Intern</i>	<i>May 2021 – January 2022</i>
- Developed a Kubernetes in-cluster observability agent to scrape critical resource metrics using the Go programming language	
- Built a CI/CD pipeline that incorporated GitHub Actions and Anthos Config Management	
- Implemented a dynamic visualization chart in Google Data Studio to showcase over 2,000 critical metrics	
- Projected scalability of agent to 20 NCR Customers, 30,000 Clusters, and over 1,000,000 end users in the first year alone	
Gravy Analytics	Ashburn, Virginia
<i>Software Developer Intern</i>	<i>Summer 2020, Summer 2019, Summer 2018</i>
- Developed and tested ongoing and historic data retrieval API using Scala programming language, 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 programming language to add filtering flags to data and validate terabytes of location data on data analytics and processing project	
- Assisted with design and development of location data API for use internally in Kotlin programming language using GeoJSON	
- Developed and implemented conversions of location data from CSV files to KML files and GeoJSON objects	

LEADERSHIP

Sigma Nu Fraternity – Gamma Alpha	Atlanta, Georgia
<i>Philanthropy Chairman</i>	<i>October 2021 – Present</i>
- 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	
- Organized food drive that collected over 100 pounds of food for the Atlanta Community Food Bank	
<i>Recruitment Chairman</i>	<i>October 2021 – Present</i>
- Planned networking events for potential new members to meet and socialize with current members	
- Led weekly meetings to organize upcoming recruitment events and develop communication pipelines with potential new members	
<i>Risk Reduction Chairman</i>	<i>January 2021 – January 2022</i>
- Created and implemented a risk reduction plan to recognize and mitigate risk for the academic school year	
- Delivered weekly presentations on basic safety operations and needed preparations for upcoming events	
American Foundation for Suicide Prevention	Atlanta, Georgia
<i>Outreach Team Leader</i>	<i>January 2022 – Present</i>
- Organized communications efforts with local businesses to raise funds for the organization and solicited sign-ups for the Out of the Darkness Campus Walk which raised over \$13,000 for mental health awareness and suicide prevention	
NOVA Cool Cats Special Hockey	Arlington, Virginia
<i>On Ice Mentor</i>	<i>March 2014 – March 2020</i>
- Designed and led drills to teach children with developmental challenges how to play hockey	

SKILLS / INTERESTS

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- **Programming:** Go, Dart, Python, C, Scala, Kotlin, Java, SQL
 - **Software:** Google Cloud Platform, Google Kubernetes Engine, AWS, Kubernetes, Docker, Anthos, Spring Boot, Spark, Git, Linux, Flutter, MongoDB
 - **Languages:** Proficient in Spanish
 - **Affiliations:** The Andrew Collins Project, Georgia Tech Club Hockey, Greek Emerging Leader