

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

Software Engineering Intern Team Lead

May 2022 – August 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
- 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

Software Engineering Intern

May 2021 – January 2022

- 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

Software Developer Intern

Summer 2020, Summer 2019, Summer 2018

- 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

Philanthropy Chairman

October 2021 – Present

- 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

Recruitment Chairman

October 2021 – Present

- 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

Risk Reduction Chairman

January 2021 – January 2022

- 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

Outreach Team Leader

January 2022 – Present

- 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

On Ice Mentor

March 2014 – March 2020

- Designed and led drills to teach children with developmental challenges how to play hockey

SKILLS / INTERESTS

- **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