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

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## 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

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*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 pipeline with potential new members

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*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

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## 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