

Keene Brogan

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EDUCATION

Georgia Institute of Technology, College of Computing
Bachelor of Science in Computer Science

Atlanta, Georgia
August 2021 – May 2025
GPA: 3.84

- Concentrations: Intelligence and People
- Berlin Study Abroad Program: Summer 2022
- Relevant Coursework: Artificial Intelligence, Machine Learning, Computer Vision, Mobile & Ubiquitous Computing, Cognitive Science, Data Structures & Algorithms, Computer Organization & Programming, User Interface Design

EXPERIENCE

Amazon Web Services (AWS)

Seattle, Washington

Software Development Engineer Intern

May 2024 - August 2024

- Designed and implemented a RAG enabled chatbot using LangChain to provide instant answers to engineers' questions, reducing the demand on on-call engineers by 60% and accelerating onboarding to AWS CloudFormation infrastructure
- Aggregated and preprocessed documentation from various internal sources to create a comprehensive knowledge base, enabling the chatbot to provide accurate and contextual responses with a 100% accuracy rate
- Architected a scalable and automated data pipeline using AWS services like EC2, S3, OpenSearch, and more, ensuring the continuous integration of up-to-date information from multiple sources into the chatbot's knowledge base

Genuine Parts Company

Atlanta, Georgia

Software Engineering Intern

May 2023 – August 2023

- Implemented Learning to Rank (LTR) machine learning model on NAPA Auto Parts' online store, which ranks products on each page of search results and is projected to increase online retail revenue by 30%
- Trained LTR model on millions of search queries and user events from 90 days of historical data to learn and predict customer behavior, which improved the NDCG (ranking effectiveness) of product order by 20%
- Developed full-stack application by integrating LTR algorithm with Google Cloud Platform and developing on platforms and frameworks such as Google BigQuery, Google Cloud VertexAI, Flask, Java Spring Boot, and React

LEADERSHIP

Georgia Tech RoboJackets

Atlanta, Georgia

Treasurer

April 2022 – May 2023

- Budgeted and managed \$250,000 across five competition robotics teams for operating and capital expenses
- Managed procurement and acquisition teams by organizing purchase orders and overseeing package delivery logistics
- Generated financial reports that secured over \$35,000 in sponsorships from active and prospective partners
- Developed financial tooling and automation systems using Google Sheets and Javascript

Secretary

November 2021 – April 2022

- Managed all internal and external communications, connecting sponsors, student groups, and new members
- Planned social networking events for more than 400 members to promote a well-connected and enthusiastic organization

EXTRACURRICULARS & PROJECTS

180 Degrees Consulting

Atlanta, Georgia

Senior Consultant

January 2023 – December 2023

- Pursued and acquired more than \$15,000 in funding for Atlanta-based mental health advocacy group "the Powerful Project" via grants, corporate sponsorships, and media campaigns
- Guided and mentored junior consultants in consulting workflow and soft skills development

Diabetes Research - Synthetic Patient Modeling

Atlanta, Georgia

Team Lead / Developer

August 2022 – December 2023

- Generated synthetic patient health records for use in diabetes research settings using SKLearn and Synthea
- Validated synthetic patient data with existing datasets to ensure consistency using Python
- Visualized created data using Seaborn and Matplotlib to compare with existing data

SKILLS

Languages: Python, Java, JavaScript, C++, C, Assembly, Swift, SQL

Frameworks: LangChain, Flask, Spring Boot, Tensorflow, ROS2

Platforms: AWS, Google Cloud Platform, GitHub