Aaron Xiao

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EDUCATION

Georgia Institute of Technology – Atlanta, GA   Expected – August 2023
Master of Science in Computer Science

University of Georgia – Athens, GA   August 2017 – May 2021
Bachelor of Science in Computer Science

SKILLS

- **Programming:** Python, Java, C++, GoLang, R, JS
- **Software/Tools**: SQL, Git, GCP, Azure, Docker, RestAPI, Linux, Agile
- **Coursework**: Computer Architecture, Database Systems, Machine Learning, Algorithms, Data Structures, Networks
- **Languages**: English (Fluent), Mandarin (Fluent), Fujian (conversational), Spanish (conversational)

WORK EXPERIENCE

NCR Corporation
Data Science Intern (Payment Analytics)   June 2022 – August 2022
- Lead team of 6 interns to create an MVP for automating time series forecasting on sales data
- Developed a high availability API in R to automate model selection for timeseries forecasting
- Designed a robust neural net for model selection yielding a 30% increase in forecast accuracy
- Conducted Scrum and Safe Agile practices to organize weekly goals and workflow
- Technologies: R

Software Engineer Intern (Retail)   May 2021 – August 2021
- Delivered MVP for a cloud based microservices enabling lottery sales from provider backed APIs
- Implemented security token generation to authenticate sales from merchants
- Deployed RestAPI written in Golang to GCP using Google AppEngine
- Technologies: GoLang, GCP, Postgres, Docker, RestAPI

Software Engineer Intern (Hospitality)   June 2020 – August 2020
- Built a centralized cloud-based solution for managing software secrets for over 75,000 stores
- Streamlined queries from CloudSQL database decreasing query time by 45%
- Technologies: GoLang, Java, GCP, Kubernetes, HashiCorp-Vault, Docker, Chef

PROJECT EXPERIENCE

TSLA Price Predictor   December 2021 – May 2022

- Leveraged natural language processing and sentiment analysis on Twitter Tweets to predict TSLA stock price movement
- Used python to train machine learning model that achieved a 70% accuracy score in correctly predicting stock behavior
- Technologies: Python, NLTK, Pandas, NumPy, Matplotlib

Retail Lottery Microservice - *NCR 3rd Global Hackathon (3rd Place) – Team Lead*   May 2021 – August 2021
- Lead a team of five in developing a self-checkout solution that enables purchasing of lottery tickets
- Created a mobile wallet application using react to seamlessly scan QR codes and store tickets
- Integration of lottery service into self-checkout estimated to increase exposure and promote sales by 20%
- Technologies: Golang, GCP, C#, JS

Exercise Reminder App   January 2021 – March 2021
- Built a Physical therapy app for android that boosted exercise completion rate of physical therapy patients by 40 %
- Implemented login system to extract and pull patient data from FHIR server into SQLite Database
- Technologies: Java, Android, FHIR, SQLite, Twilio

ACTIVITIES

- NCR Global Hackathon – Led a team of 5 to build a mobile service app, placing 3rd out of 400+ teams
- HackGT7 – Collaborated in a team of four to develop navigation app for the visually impaired
- UGAHack6 – Led team of four to develop an educational web application to animate sorting algorithms in action

PATENTS

- **Paperless Lottery Ticket** by Aaron Xiao et al. (equal contribution)   NCR, September 2021