

Aaron Xiao

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EDUCATION

University of Georgia – Athens, GA
Bachelor of Science in Computer Science
GPA: 3.70/4.00

August 2017 – May 2021

Georgia Institute of Technology – Atlanta, GA
Master of Science in Computer Science
GPA: 4.00/4.00

Expected – May 2023

WORK EXPERIENCE

NCR Corporation

May 2021 – August 2021

Software Engineer Intern (Retail)

- Wrote a highly maintainable backend application in Golang for an innovative self-checkout solution
- Produced and optimized a cloud microservice on GCP using App Engine, cloudSQL, and CloudBuild to support CI/CD
- Practiced safe agile in a fast-paced environment, participating in standups, planning, refinement, and demos
- Maintained clear channel of communication with the client on product status, feature development and inquiries
- Submitted two invention disclosure records to company review board for patent consideration
- Presented to Executive leadership a completed POC with a potential for \$52 million increase in annual revenue

Software Engineer Intern (Hospitality)

June 2020 – August 2020

- Cooperated with engineers to build a centralized cloud-based storage system for managing software secrets
- Secured software secrets using Hashicorp Vault and deployed service to cloud using GCP, helm and docker
- Designed UNIX shell scripts to automate SSL certificate renewals, ensuring domain uptime is at 100%
- Scaled micro-service through Kubernetes, providing instant pod creation/updates for over 200 thousand stores
- Wrote system configuration recipes using Chef to handle the management/deployment of services on the windows host system

PROJECT EXPERIENCE

Sleep Tracking Website

December 2019 – May 2020

- Built a web application for tracking and recording sleep behaviors of logged in user
- Integrated HTML/CSS frontend with a MySQL database system to store and display the current user's sleep data
- Implemented java backend to produce figures and graphs of the user's sleep patterns to aid in developing healthy sleep habits

Physical Therapy App

August 2021 – December 2021

- Designed an android application for client that aids physical therapists in sending SMS reminders to patients
- Wrote a backend in java to pull and store patient medical data from FHIR servers into SQLite database
- Configured backend APIs such as Twilio to automate the scheduling and sending of patient exercise reminders via SMS
- Patient surveys demonstrated a 20% increase in exercise completion rate within groups tested
- Provided weekly demos to client and implemented requested features/modifications in accordance with user feedback

Paperless Lottery Wallet App - NCR 3rd Global Hackathon (3rd Place) – Team Lead

May 2021 – August 2021

- Lead a team of four in developing a self-checkout solution that enables purchasing of lottery tickets
- Built a paperless wallet app using react to seamlessly scan and store tickets purchased via QR code
- Integrated mobile app with our GCP microservice that enables self-checkout lottery sales from lottery providers
- Presented project to judges and placed 3rd out of 400+ teams from across the globe

SKILLS

- **Programming:** Java, Python, C++, Go, JavaScript, HTML/CSS
- **Software/Tools:** MySQL, GitHub, GCP, Docker, Restful-API, Postman
- **Coursework:** Web Programming, Database Management, Machine Learning, Algorithms, Data Science, Data Structures
- **Languages:** English, Mandarin, Spanish

PATENTS

- **Paperless Lottery Ticket** by Aaron Xiao et al. (equal contribution)

NCR, September 2021