

SUNNY HUANG

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Education

Northeastern University

September 2020 – May 2024

Khoury College of Computer Science | GPA: 3.8/4.0

Boston, MA

B.S. in Computer Science, Minor in Mathematics

Relevant Coursework

- Object-Oriented Design
- Algorithms and Data
- Natural Language Processing
- Networks and Systems
- Computer Systems
- Machine Learning 1 and 2

Technical Skills

Languages: Python, TypeScript, JavaScript, Kotlin, Java, Golang, C

Technologies: React, PostgreSQL, Databricks, Spark, Docker, AWS, MongoDB, MySQL, Jetpack Compose, Prisma

Work Experience

Capital One

August 2024 – Present

Software Engineer - Cyber Governance and Risk

McLean, VA

- Currently utilizing Databricks, Spark, and Python to automate the monthly data quality verification of over 300 large datasets used by both internal and third-party applications
- Enhanced the automation above to ensure datasets adhere to an updated set of validation rules
- Optimized the team's utility library's unit test suite runtime by 40% from 1 minute to about 35 seconds
- Automated the process of notifying Cyber associates of upcoming issue and ticket due dates using Databricks, sending 150+ monthly emails and Slack messages

Capital One

June 2023 – August 2023

Software Engineer - Android

McLean, VA

- Migrated the Android Mobile App's frontend from XML-views to Jetpack Compose, improving code extensibility by creating reusable components
- Designed and developed a fullstack NextJS/Typescript application for an internal hackathon that adds playlist history and collaboration to Spotify, placing 4th out of 36 teams

Amazon Robotics

January 2023 – June 2023

Software Engineer Co-op - Global Safety and Support

North Reading, MA

- Maintained and updated an application for Fulfillment Center workers to report issues and mechanical failures, performing bug fixes and optimizing performance
- Redesigned the ticket intake process of the application above using React/Javascript, allowing users to create their own custom intake workflows and used Jest to ensure 80% test coverage
- Implemented and tested AWS Lambda functions to fetch employee data from an internal API and application icons from AWS S3 to be displayed upon user login

Advanced Micro Devices (AMD)

January 2022 – August 2022

Design Automation Co-op - Signal Integrity

Austin, TX (Remote)

- Designed and developed a version control tool for partner teams to maintain a history of S2P simulation files ran with different parameters using Python
- Leveraged Jenkins and ETX to create CI/CD pipelines for the signal integrity GitHub repository
- Maintained a Python script that analyzes and visualizes data from signal integrity simulations, providing routine updates and visualizations for over 50+ files across the organization

Extracurricular

Northeastern Generate | Golang, React Native, GORM, PostgreSQL

January 2024 - April 2024

- Delivered a mobile calendar application for Northeastern's Student Government, providing a centralized social platform for over 600 organizations to post and promote events and for students to RSVP for these events
- Integrated 20+ GORM endpoints that connect to a PostgreSQL database, allowing the application to register new users, authorize existing users, and search events with advanced filters and pagination

Spotify Playlist Generation | Python, PyTorch, Tensorflow, Keras

December 2023

- Trained and optimized a n-gram model, a recurrent neural network, and a transformer model with encoder-decoder architecture to generate songs when given the playlist title using the Spotify Million Playlist Dataset