Swapnil Shaurya

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EDUCATION

The University of Texas at Austin   Graduation: May 2024
B.S. Computer Science & B.A. Economics   GPA: 3.78/4.00
- Courses: Data Structures, Algorithms, Software Engineering, Machine Learning, Databases, Cloud Computing, Operating Systems, Computer Architecture, Linear Algebra, Multivariate Calculus, Probability and Statistics

WORK EXPERIENCE

Google   May 2023 – Aug 2023
Software Engineering Intern
- Full-stack & iOS Development in **Java**, **C++**, and **Swift**/**Objective-C** on the **YouTube** Connected Experiences team
- Designed & implemented new feature, supporting simultaneous video playback on phone while casting to TV
- Implemented multiple **iOS UIs** and wrote code/**unit tests** spanning all team stacks: iOS, Server, TV (**TypeScript**)
- Took ownership of soft launch (coordinated PM & UX); developed **metrics** to track usage (~12M users per day)

Google   Aug 2022 – Dec 2022
Software Engineering Intern
- ML Modeling/Infra & Backend Development in **Python** and **C++** on the Document AI team within **Google Cloud**
- Implemented a novel **E2E modeling pipeline** for the training, prediction, and evaluation of open-source **PyTorch** models on **GCP Vertex AI** infrastructure
- Developed Python data processing libraries with unit tests and modeling pipeline integration
- Launched a new prediction endpoint for Doc AI's **REST API** using a custom-built **Docker** image

Charles Schwab   May 2022 – Aug 2022
Software Engineering Intern
- Backend/Database development on the Client Data Management team overseeing migration to a new database
- Built **Java distributed microservices** in a high-volume environment (>50k requests per min) using **Spring Boot**
- Developed a **Restful API** to optimize retrieval from DB2 (legacy) and Yugabyte databases for 40 million accounts
- Wrote **SQL** queries to migrate data, designed **JUnit** tests, and created **Splunk** prod monitoring dashboards

MD Anderson Cancer Center   Aug 2021 – Dec 2021
Data Science & ML Research Intern
- Processed demographic & health data with **MySQL**, creating data clustering models in **Python** with **SciKit-Learn**
- Applied the Elbow Method with **K-means clustering**, and principal component analysis to isolate key features

The University of Texas at Austin   Aug 2020 – Jun 2021
Machine Learning Research Assistant
- Authored a **research paper** that proved 93% efficacy of structured white noise reduction using GANs
- Created a style-based GAN (StyleGAN) that implements the pixel2Style2pixel framework in **Python** with **PyTorch**

PERSONAL PROJECTS

Electrends
- Created a Web app that aggregates data on Texas elections, politicians, and electoral districts
- Frontend: **JavaScript** (**React**, **Bootstrap**), Backend: **RESTful API** using **Postman & Flask**, Deployed: **Docker**, **AWS**

Budgeter App
- Designed a **Java** application that helps track expenses and build monthly budgets based on previous spending
- Utilizes **Node.js** for the **Backend** with express framework and stores user data with **MongoDB** database

SKILLS

Programming: Java, Python, C/C++, JavaScript, React, Swift, Objective-C, SQL, NoSQL, R
Machine Learning Libraries: *Python:* SciKit-Learn, PyTorch, TensorFlow
Cloud Platforms: *Google Cloud (GCP):* Associate Cloud Engineer Certification & internship, *AWS*: class/project experience

LEADERSHIP

Assoc. for Computing Machinery, *VP Finance & Active Member:* Handle club finances and help plan events/activities
Texas Code Orange, *Volunteer Tutor:* Teaching scratch programming to underprivileged kids in downtown Austin