Yash Yagnik

609-923-5196 | yashyagnik20@gmail.com | linkedin.com/in/yash-yagnik | github.com/yash-yagnik | personalwebsite.com/yash-yagnik

Education

Stevens Institute of Technology Hoboken, NJ
Bachelor of Science in Computer Science *Expected 2025*
Awards: All-Academic Team, Scholar of Distinction, Dean's List: 2022, 2023, 2024 GPA: 3.74
Relevant Coursework: Linear Algebra, Data Structures, Algorithms, Operating Systems, Computer Architecture and Organization, Machine Learning: Fund & Apps, Web Programming

Technical Skills

Languages: Python, Java, C++, C, JavaScript, Kotlin, Scheme, Ocaml, R
Frameworks: MySQL database, Android Studio, Anaconda, Jupyter Notebooks, Git, Figma, Jira, Confluence, Apache Spark, Kafka, AppDynamics, Grafana, Spring Boot, Node.js, OpenBSD
Tools: Git, Google Cloud, AWS, VS Code, Visual Studio, IntelliJ, Eclipse, Juypter

Experience

Comcast NBCUniversal | Philadelphia, PA May – August 2023 & 2024
Software Engineering Intern (Site Reliability)

- Designed and trained a chatbot using Microsoft Azure's **LUIS and CLU**, achieving response accuracy by **25%**, through daily training with new channel messages using **Microsoft Graph API** data extraction.
- Developed univariate and multivariate anomaly detection scripts, improving prediction accuracy by over **75%** over the existing Facebook Prophet model; applied models like Isolation Forest, One-Class SVM, and Kernel Density Curve
- Developed a **Python** script that extracted diagnostic JSON data from multiple Comcast API endpoints, exported it to a .csv file, then uploaded it to the team's Cloud Foundry database, improving efficiency by **99+%**.
- Collaborated on a cutting-edge capstone project focused on developing an AI-driven chatbot, leveraging **ChatGPT**. Saving Comcast **$1.25 million, 83.3%** of the money allotted by Comcast to spend on a chatbot service (Zendesk at the time). Equipping Comcast employees with comprehensive responses to specialized Comcast resources.

Projects

Trivia | *C, Sockets, File/Multiplexed I/O* January 2024 – May 2024

- Designed and implemented both **server and client** components for a multiplayer Trivia game application
- **Socket connections and file I/O** for command line argument parsing, question database management, and interactive gameplay

Minishell | *C, Signal Handling* January 2024 – May 2024

- Created an identical linux kernel from scratch with built-in commands such as (cd, pwd, lf, lp), rest used **exec()**

Concussion project | *Java, C, Kotlin, Hardware* September 2020 – Present

- Designed device with embedded code that can diagnose the **severity** of head collision by **calculating g-force** of hit
- Built an **app** that displayed what specific type of concussion the individual had; Determined from the data received

Music Recommender | *Python* September 2022 – December 2022

- Implemented a music recommendation program in Python, allowing users to establish **public or private accounts**
- Recieved their music preferences and gave **personalized artist recommendations**, popular songs from their genre, and perform related actions. Text file used as database to store user information and preferences.

Extracurriculars

Covid-19 Vaccine Appointment For Seniors | *Python, Google Forms API* April 2020 – April 2021

- Formed a Facebook group to enable **senior citizens** to book vaccine appointments through a Google form
- Coded Python script that extracted user data from **Google Forms API**, auto-filling data into the vaccine site
- Provided assistance which led to vaccinations for **30+** people
- Used Celery and Redis for asynchronous tasks

Stevens Men's Fencing Team | September 2022 – Present

- Currently on the Men's Fencing Team at Stevens; Accredited with a career **83.3% win rate**
- Awarded with both **All-Academic Team and Scholar of Distinction** for maintaining Dean's List