

Ishaan Puri

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Education

University of Washington - Seattle, WA

Bachelor of Science in Computer Science

Expected Graduation: **June 2025** | **US Citizen**

GPA: 3.53

Experience

Software Engineering Intern | Coinbase

June 2024 - September 2024

Mountain View, CA

- Created a feature that enables retail users to efficiently filter, sort, and paginate their transaction history in Go.
- Developed a worker to continuously stream transaction data from Coinbase's largest database to Elasticsearch, improving p50, p75, p95, and p99 unfiltered read performance by 67.9% and filtered read performance by 93.2%.
- Defined API specifications using Protocol Buffers and gRPC, ensuring efficient communication between services.
- Implemented Docker containerization and Kubernetes support, enhancing the scalability and portability of the solution across different environments.

Software Engineering Intern | Toast

June 2023 - August 2023

Boston, MA

- Engineered a scalable menu pricing system for multi-location operators using Kotlin, TypeScript, and GraphQL, improving workflow for 25% of Toast customers and saving 20+ hours weekly on menu updates.
- Redesigned the response schema of all Toast menu's endpoints eliminating payload redundancy which reduced bandwidth usage by 15% and significantly improved API performance.
- Released the feature to select beta customers behind a LaunchDarkly feature flag and monitored activity using Splunk.

Software Engineering Intern | ChartHop

June 2022 - August 2022

New York, NY

- Built hotkeys in React and TypeScript which reduced manual navigational time between ChartHop Pages by 60%.
- Added multiple new query parameters on the People API using Kotlin to improve customer search accuracy for employee lookup by 20%.

Undergraduate Research Assistant | UW Makeability Lab

October 2021 - March 2022

Seattle, WA

- Owned core feature within Sidewalk Gallery that preprocessed tagging data for machine learning models in the backend using Scala and Python.
- Coordinated and organized an image tagging workshop with 30+ volunteers that led to 5000+ validated images.

Projects

Baseball Player Performance Prediction | Python, PyTorch, Pandas, NumPy, Matplotlib

- Developed an LSTM-based neural network model with two layers using PyTorch to predict baseball player performance, leveraging sequential data analysis to capture long-term dependencies.
- Implemented techniques such as dropout regularization, batch normalization, and hyperparameter tuning to mitigate overfitting and enhance model accuracy.

Colley | Java, Kotlin, Spring Boot, TypeScript, SQL, Docker, Google Cloud

- Created a platform for prospective students to view crowd-sourced data provided by past college applicants.
- Designed and executed a Repository-Service architecture to model, read, and write data to a MySQL database running in a Docker container.

Relevant Coursework

CSE 332: Data Structures and Parallelism, CSE 333: Systems Programming, CSE 344: Introduction To Data Management, CSE 351: HW/SW Interface, CSE 451: Operating Systems, CSE 455: Computer Vision, CSE 473: Introduction to AI, CSE 599G1 Deep Learning, CSE 584 Computer Security

Technical Skills

Languages: Java, Python, Go, JavaScript/TypeScript, SQL, Kotlin, GraphQL, Protocol Buffers, HTML/CSS

Frameworks/Libraries: React, React Native, Redux, Flask, Springboot, gRPC, PyTorch, Pandas, NumPy

Developer Tools: AWS, Elasticsearch, Databricks, MongoDB, Splunk, Docker, MySQL, LaunchDarkly