Ishaan Puri

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Education

University of Washington - Seattle, WA Expected Graduation: **June 2025**
Bachelor of Science in Computer Science GPA: 3.78

Technical Skills

Languages: Java, Kotlin, Python, Go, JavaScript/TypeScript, SQL
Frameworks/Libraries: React, Flask, Springboot, gRPC, PyTorch, Pandas, NumPy
Developer Tools: AWS, ElasticSearch, MongoDB, Docker, MySQL

Experience

Software Engineering Intern | Go, ElasticSearch, gRPC June 2024 - September 2024
Coinbase | Mountain View, CA

- Engineered a high-performance feature that enables retail users to filter, sort, and paginate their transaction history.
- Designed and implemented a robust, scalable worker system leveraging Goroutines and concurrency to continuously ingest terabytes of transaction history data from Coinbase's largest database in MongoDB to Elasticsearch.
- Architected Elasticsearch infrastructure, optimizing index structures, mapping designs, shard allocation, replication strategies, and query DSL, resulting in 67.9% improvement in unfiltered read performance and 93.2% in filtered read performance across p50, p75, p95, and p99 metrics.

Software Engineering Intern | Kotlin, GraphQL June 2023 - August 2023
Toast | Boston, MA

- Engineered a scalable menu pricing system for multi-location operators 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.

Software Engineering Intern | Kotlin, TypeScript, React June 2022 - August 2022
ChartHop | New York, NY

- Built hotkeys which reduced manual navigational time between ChartHop Pages by 60%.
- Added multiple new query parameters on the People API which improved customer search accuracy for employee lookup by 20%.

Undergraduate Research Assistant | Python, Scala October 2021 – March 2022
UW Makeability Lab | Seattle, WA

- Owned core feature within Sidewalk Gallery that preprocessed tagging data for machine learning models in the backend.
- 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.

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 461: Networks, CSE 473: Introduction to AI, CSE 599G1 Deep Learning, CSE 584 Computer Security