

Pratik Budhiraja

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WORK EXPERIENCE

- Software Engineer, Aeyesafe Inc.** ✨ May 2024 – present | Seattle, WA
Led cross-platform development of a storage platform for Android and iOS applications using PostgreSQL for user data and MongoDB for analytics. Leveraged Redis caching to reduce latency by 30%.
- Teaching Assistant, Northeastern University** ✨ Sep 2022 – Apr 2024 | Boston, MA
Mentored nearly 80 students in Mobile Application Development, providing 1:1 support and guidance focusing on advanced topics like Jetpack Compose, LiveData, Flows, and Coroutines to enhance student expertise
- Software Engineering Intern, Aeyesafe Inc.** ✨ Jun 2023 – Dec 2023 | Seattle, WA
Developed an Android for senior safety monitoring, adopted by 100+ beta users using Kotlin. Contributed to open-source MPAndroidChart API to add custom visualization. Made UI improvements, reducing app load time by 38%. Setup an automated testing pipeline to streamline development
- Software Engineer, Royal Dutch Shell** ✨ Jul 2019 – Nov 2021 | Bengaluru, IN
Automated compliance reporting and optimized user access management processes. Built ETL pipelines using Power Query and optimized MySQL queries, reducing latency by 20% and IT risk assessment time by 15%. Created Power BI visualizations for IAM controls, improving security processes and increasing anomaly detection by 30%

EDUCATION

- Northeastern University, Master of Science in Computer Science** | GPA 3.87 Jan 2022 – Apr 2024 | Boston, MA
- Amity University, Bachelor of Technology in Computer Science** | GPA 3.52 Jun 2015 – May 2019 | New Delhi, IN

PUBLICATIONS

- Football Prediction** ✨ Apr 2024
Collaborated on a research project that predicted sporting event outcomes using machine learning models and aimed to develop models to forecast home team wins, using historical data from 2000-01 to 2017-18 EPL seasons
- Performance Analysis of TCP Variants** ✨ Mar 2022
Worked on the performance analysis of different TCP variants (Tahoe, Reno, NewReno, and Vegas) aimed at investigating performance under various network conditions through NS-2 simulation

PROJECTS

- Calorie Tracker** ✨ Dec 2023
Developed a calorie tracker app in Android with a personalized onboarding process and real-time updates on daily nutrition (calories, carbs, proteins, fats)
- Polystore** ✨ Apr 2023
Created an online marketplace for 3D models, hosting ~1,000 models, handling ~500 transactions/day, and supporting 200+ concurrent users. The backend was built using MySQL, AWS, and Java Spring, and the frontend was written in React
- Stock Market Simulator** ✨ Dec 2022
Implemented a stock market simulator with real-time pricing using the AlphaVantage API, enabling users to create portfolios, trade stocks, and apply automated investing strategies. The simulator supported 50+ users and handled over 1,000 daily transactions during peak usage

SKILLS

Programming — Java, Kotlin, Python, Android, TypeScript/JavaScript, HTML/CSS, React, Redux, Node.js | **AWS** — S3, EC2, DynamoDB, Lambda, VPC, IAM | **Databases** — MySQL, PostgreSQL, MongoDB, Redis | **Developer Tooling** — Git/GitHub, Docker, Gradle, Linux/UNIX