Pranav Raveendran

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EDUCATION

University of Maryland — College Park, MD
M.Eng in Software Engineering — *Expected May 2026*

SSN College of Engineering (Anna University) — Chennai, India
B.E in Computer Science and Engineering; ***CGPA: 8.29/10*** — *July 2021*

TECHNICAL SKILLS

- **Programming Languages**: Java, Javascript, Python, , C++, C, SQL, Golang, Ruby, TypeScript, WordPress
- **Frameworks & Tools**: Spring, REST API's, React, Redux, Google Cloud, AWS, HTML, CSS, Flask, Cypress, Linux, Nemo, Selenium, Node.js, Junit, Mockito, CI/CD, Jenkins, Cassandra, Spark, ElasticSearch, Kubernetes, Webpack, GitHub, Next.js, Angular.js, Docker, Datadog, Splunk, Kafka, BigQuery, BigTable, Solidity, Tableau
- **Communication & Presentation**: Excellent organizational, presentation, and interpersonal skills; able to communicate complex ideas and product vision effectively to stakeholders.

EXPERIENCE

PayPal — Bangalore, India
Software Engineer, Foundational Commons Platform — *Feb 2021 - Aug 2024*

- Enhanced API security with OAuth 2.0, reducing security incidents by 30%.
- Spearheaded the development of a customer onboarding and notification tracking system using React.js for the frontend and Java Spring Boot for the backend, resulting in a 25% reduction in customer friction.
- Built an analytical pipeline for push notifications, boosting engagement by 20%.
- Modernized PayPal's notification preference system, migrating from a legacy C++ platform to a Java-based system, resulting in a 75% reduction in MTTR and MTTD during outages.
- Developed a migration pipeline to seamlessly transition customer onboarding data from a legacy database to Oracle MySQL, ensuring data integrity and improving system performance.
- Enhanced the reliability of the SMS infrastructure using observability tools like Splunk, leading to a 15% cost reduction and earned **Spot Monetary Bonus Awards in September 2023 and July 2023 for outstanding contributions.**

Green Turn Idea Factory — Kochi, India
Technical Intern — *May 2020 - Jul 2020*

- Developed a power consumption tool using Tableau, leading to a 10% reduction in power usage for consumers, and conducted data analysis using Python to enhance visualization and interpretation.

Defense Research and Development Organization — Chennai, India
Research Intern — *Jun 2019 - Jul 2019*

- Developed a predictive engine for hydrocarbons to aid fuel options exploration, utilizing Machine Learning regression algorithms like XgBoost and Random Forest for enhanced predictive accuracy.

PROJECTS

Machine Learning for Drug Approval — *Dec 2020 – Apr 2021*

- Developed a predictive model using Lasso Penalized Cox Regression and DrugBank and PubMed data, enhancing predictive accuracy by 70%.

Drone Path Planning — *Feb 2020*

- Simulated drone paths using Unity, R, and Python, implemented energy-efficient routing with Flask, and led the team to the **Grand Finals of Smart India Hackathon 2020**, reducing energy usage by 15%.

Blockchain-Based Transactions for Agriculture — *Feb 2019 - Mar 2019*

- Developed a secure web app for seed transactions with Solidity, Node.js, and React.js, which reduced fraudulent activities by 20% and led the team to the **Grand Finals of Smart India Hackathon** 2019.

Smart Attendance System Using Beacons and Deep Learning — *Jan 2019 - Dec 2019*

- Created an attendance system using Beacons and Deep Learning, cutting proxy attendance by 75% and received a Research Grant, with the work published in ICAPSM conference proceedings (Aug 2020).

English Exam Server — *Jun 2018 - Jun 2019*

- Developed a web app for English exams using Node.js and MongoDB, reducing third-party costs by 30%.