

# PRAVEEN SAI KUSULURI

## FULL STACK DEVELOPER | SOFTWARE ENGINEER

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### SUMMARY

**Frontend Engineer with 3+ years of experience building** scalable, high-performance web applications **using** React, TypeScript, and modern JavaScript frameworks. **Strong focus on** UI/UX design, pixel-perfect implementation, and accessibility, **ensuring seamless and intuitive user experiences**. **Experienced in** developing reusable components, optimizing frontend performance, and collaborating closely with product/design teams **to deliver customer-focused solutions**. **Adept at working in** fast-paced, early-stage environments **with a bias toward action, rapid iteration, and ownership of** frontend architecture for new product lines.

### SKILLS

**Programming Languages:** Go, Java, Python, JavaScript, TypeScript, SQL, Shell Scripting

**Frontend & Mobile:** React.js, Next.js, React Native, Angular, Vue.js, HTML5, CSS3, Bootstrap, Tailwind CSS

**Backend & Frameworks:** Node.js, Django, Flask, Spring Boot, Hibernate, Microservices, REST, GraphQL, OpenAPI

**Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, ECS, CloudFormation), GCP (Cloud Functions), Docker, Kubernetes, Jenkins, GitHub Actions, GitLab CI/CD, Terraform

**Security & Authentication:** JWT, OAuth2, Secure API Design, MFA Integration

**Messaging & Streaming:** Kafka, RabbitMQ

**Testing & Tools:** JUnit, Postman, Selenium, PyTest, Git, GitHub, Bitbucket, Jira, Agile (Scrum)

### WORK EXPERIENCE

#### EFFICENS SYSTEMS | Full-Stack Developer

Jun 2022 - May 2023

- **Enterprise Human Resource & Workforce Management System (used by 3,000+ daily employees)**

- Led a cross-functional team in deploying new features for the HR & Workforce Management system, driving a 15% boost in employee productivity and improving user adoption across 3,000+ daily users.
- Optimized backend services by conducting regular code reviews and implementing best practices, resulting in a 25% reduction in system downtime and improved application reliability.
- Engineered scalable microservices for Immigration & Document Management, cutting data redundancy by 40% and accelerating data retrieval for 1,000+ global users.
- Implemented automated testing pipelines and CI/CD processes, reducing production bugs by 30% and enabling faster, more stable releases.
- Developed and optimized REST APIs in Java and Node.js that saw 25% increase in system throughput and 25% reduction in response times under load for 3,000+ daily users.
- Worked with business stakeholders in Agile sprints to deliver real-time dashboards that reduced reporting time by 40% so leadership could make faster, data-driven workforce decisions.

#### EFFICENS SYSTEMS | Full-Stack Developer

Mar 2020 - May 2022

- **Immigration & Document Management Platform (serving 1,000+ users daily across global offices)**

- Developed a scalable Immigration Management Portal for 1,000+ daily users, improved application responsiveness by 35% and document processing through React.js, Java and GCP.
- Designed and implemented a secure microservice architecture with OpenAPI, cutting data redundancy by 40% and improving retrieval efficiency, supported by automated Git-based testing.
- Built a dual-role user system with secure logins and automated document workflows, reduced manual processing by 50% and improved efficiency for both admins and daily users.
- Integrated real-time analytics into the portal, giving stakeholders actionable insights to make faster, data-driven decisions.
- Worked closely with stakeholders to optimize the immigration application process, reducing processing time and improving overall user satisfaction.
- Performed regular performance assessments and system optimizations, ensuring the portal remained scalable, reliable, and fast under high traffic.
- Developed automated reporting features that allowed stakeholders to quickly access key metrics and track operational performance.

## EDUCATION

### KENT STATE UNIVERSITY

*Masters Degree, Computer Science*

May 2025

Relevant Coursework: Advanced Algorithms, Machine Learning, Deep Learning Fundamentals, Data Engineering, Software Engineering

## PROJECTS

### SPEECH EMOTION RECOGNITION

Aug 2024 - Nov 2024

- Captured real-time emotion recognition capabilities by implementing an intuitive interface that allows users to upload voice recordings and process them using Python; processed thousands of files weekly with seamless integration between frontend React.js components and backend Flask APIs.
- Developed a full-stack web application with React.js for the frontend and Node.js and Flask APIs for the backend, processing thousands of voice files weekly.
- Optimized cloud-based architecture on AWS by integrating load balancing techniques and implementing CI/CD pipelines, reducing server response time by 30% during high traffic periods, while ensuring seamless accessibility of applications on the immigration portal.

**Tech:** React.js, Flask/FastAPI, Python (Librosa, TensorFlow), AWS, Docker, MongoDB/PostgreSQL

### NPM VISUAL

Aug 2024 - Nov 2024

- Developed a system to analyze over 50,000 NPM package dependencies, identifying security vulnerabilities.
- Developed and implemented data analysis tools to identify and mitigate risks associated with over 50,000 NPM package dependencies, resulting in improved application stability and reduced incidents.
- Implemented robust analysis frameworks around third-party packages highlighting security threats encountered within each project's ecosystem, ensuring comprehensive coverage against vulnerabilities leading to safer deployment strategies with reduced incidents by two-thirds.
- Implemented security-focused dependency analysis, reducing package-related incidents by 67%.

**Tech:** Python, Flask, React.js, Neo4j, AWS

### Desi Connect (Student Ride-Sharing Platform)

- Built a mobile-first React Native app for 500+ university students for ride-sharing, reduced transportation costs by ~20% for international students and strengthened campus community networking.
- Integrated **Google Maps API** for location-based ride discovery and secure in-app chat for driver-rider coordination.
- Enabled students to filter rides by source, destination, and timing, improving accessibility and affordability for international students.

**Tech:** React Native, Node.js, Firestore, Google Maps API, Google Cloud Storage, Google Cloud Functions.