

# Tejaswi Kurapati

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## Education

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### George Mason University

Master of Science in Computer Science

CGPA: 3.7/4.0

Fairfax, Virginia

May 2024

## Experience

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### InsightLegi | Software Engineer

Sep 2024 – Present

- Tech Stack: Next.js, React, Firebase Cloud Functions, Google Vertex AI, NPM, Jest, React Testing Library, Cypress, PostgreSQL
- Built a high-performance full-stack legislative-tracking app with core UI, authentication, and admin features to streamline decision-making.
- Implemented data acquisition with NPM crawler libraries and synchronized front-end components with backend systems for responsive UX
- Set up AI code-generation tooling (Codegen, GitHub Copilot) via APIs/SDKs to automate boilerplate and accelerate delivery.
- Wrote unit/integration tests (Jest/Cypress) and conducted code reviews for consistent quality.
- Designed ETL pipelines to ingest multi-source legislative data into Firebase/PostgreSQL, improving accuracy and availability.
- Optimized queries and indexes, reducing response times by ~25% in high-traffic scenarios
- Automated CI/CD with GitHub Actions for build, test, and deploy pipelines.

### Accenture | Software Engineer

Jul 2021 – Jan 2023

- Tech Stack: React, JavaScript, SSIS, SQL Server, Power BI, PowerShell, AWS (EC2, S3, Lambda), Jest, React Testing Library
- Built responsive, data-driven UIs in React/JS integrated with SSIS/SQL Server services to support analytics and reporting.
- Developed Power BI dashboards and automated refreshes with PowerShell for timely business insights.
- Leveraged AWS (EC2, S3, Lambda) to host apps and manage data, lowering costs by ~20%
- Improved UI reliability with focused unit testing (Jest/RTL) and QA practices.
- Designed ETL workflows in SSIS to process large datasets for accurate reporting across business units.
- Tuned SQL Server queries, improving data retrieval by ~30% and enabling near real-time analytics.

## Projects

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### Sign Language Detection [Python, OpenCV, NumPy]

- Implemented feature extraction (edges, corners, SIFT) and binary masking to handle variations in skin tone, background, and clothing.

### React-Based Web Application [JavaScript, React, Java, Spring Boot, SQL, Docker, Jenkins, AWS]

- Built a SPA showcasing community contributions; integrated with Java REST APIs and SQL DB for data management and deployment.

### Golang Networked Application [Go, Airtable, PostgreSQL, gin]

- Created a concurrent client-server system for efficient request handling and data processing.

## Technical Skills

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- **Languages:** Java, JavaScript, TypeScript, HTML, CSS, Python, C++, Go, SQL ,Frameworks/Libs: React, ReactJS, Next.js, Angular, Redux, Spring, Spring Boot, RESTful APIs, Microservices, Jest, Unit Testing, Agile/Scrum, DevOps, JMeter, GraphQL
- **Technologies:** ETL, Data Modeling, Data Warehousing, Feature Extraction,Tools & Platforms: AWS (IAM, S3, EC2, ECS, ECR, Lambda, KMS, CloudFormation), Docker, Jenkins, Git, JIRA,Apache Tomcat, Kubernetes, Azure DevOps, Apache Kafka, CI/CD, Slack, Azure Data Factory, Azure SQLD,Database, SSIS, SSMS, Power BI, Databases: Microsoft SQL Server, MySQL, Oracle, PostgreSQL

## Coding and Achievements

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- “**Best Performer**” award for continuous learning and impact at Accenture.