

PRAKRUTHI KOTESHWAR

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OBJECTIVE

Software Engineer with 3+ years of experience designing and building scalable web applications and automation frameworks. Strong background in full-stack development, backend systems, and cloud-native solutions, with experience delivering high-quality products in fast-paced environments. Seeking full-time Software Engineer or Full Stack Developer roles to build impactful, production-grade systems.

EDUCATION

Master of Computer Science, George Washington University (Washington, DC) Expected 2026

Relevant Coursework: Machine Learning, DBMS, Distributed Computing Systems, Neural Networks and Deep Learning and Enterprise Software Development.

SKILLS

Programming Languages: Python, Java, JavaScript

Frontend Technologies: React, HTML5, CSS3, JavaScript (ES6+), Tailwind CSS, TypeScript

Backend & Databases: Django, Node.js, Express.js, RESTful APIs, SQL, PostgreSQL, MySQL

Cloud & DevOps: AWS, GCP, Docker, CI/CD Pipelines, Git

Machine Learning & Deep Learning: Scikit-learn, TensorFlow, PyTorch, Neural Networks

EXPERIENCE

Software Engineer Consultant (Cloud & Distributed Systems), AWS Feb 2026 - Present
DOT Consulting LLC *Alexandria, VA*

- Achieved 60% cost efficiency improvement for cloud-based distributed workloads using AWS Spot Instances, autoscaling, and CloudWatch monitoring.
- Led end-to-end cloud workflow automation, resulting in 70% improvement in job execution reliability and throughput across HPC workloads.
- Developed automated job orchestration and post-processing pipelines that integrated Slurm scheduling, Python, and Bash scripting to support scalable and reproducible execution.

Research Assistant, Usable Security and Privacy Lab Jan 2026 - Present
George Washington University *Washington, DC*

- Developed and maintained middleware and backend APIs using Node.js, and built full-stack features with the Remix (React) framework to support secure, data-driven research applications.

Software Test Engineer Intern May 2025 - Aug 2025
PACCAR Financial *Bellevue, WA*

- Built and validated UiPath-based automation workflows with REST API integrations and JUnit-backed test logic, reducing manual processing time and improving data accuracy across finance operations.
- Performed end-to-end functional, regression, and integration testing and collaborated in Agile Scrum and code reviews to improve automation reliability, maintainability, and release quality.

Software Development Engineer in Test – II May 2023 – Jun 2024
HashedIn by Deloitte *Bangalore, IN*

- Built full-stack SaaS applications using React frontend and Node.js and Python backend services, implementing RESTful APIs and middleware for scalable, API-driven architectures.
- Developed and integrated GenAI-powered features across frontend and backend, enabling automated data processing, intelligent workflows, and LLM-based decision logic in production systems.
- Containerized applications using Docker and deployed on AWS (EC2, Elastic Beanstalk) with load balancers, autoscaling, monitoring, and logging, improving system availability, scalability, and performance.

Software Development Engineer in Test – I Aug 2021 – May 2023
HashedIn by Deloitte *Bangalore, IN*

- Designed and implemented automation frameworks for web and API testing using Java, Selenium, and JUnit, achieving ~80% test coverage and improving pre-release software reliability.
- Executed functional, regression, and integration testing, optimized SQL queries to reduce test data load times by up to 70%, and collaborated with engineering teams via JIRA for rapid defect resolution.

PROJECTS

RAG-Powered FAQ Assistant | Python, LLMs, LangChain, Vector Search, NLP May 2025 – Aug 2025

- Built a retrieval-augmented generation (RAG) system over a 20K+ knowledge base, combining semantic search with LLMs to deliver accurate responses in <2 seconds for customer support queries.

Fake Job Detection Portal | Python, Machine Learning, NLP, Scikit-learn, React, REST APIs Aug 2025 – Dec 2025

- Developed an ML-powered fake job detection system with React frontend and RESTful backend services, classifying fraudulent job postings using NLP and supervised learning models to improve detection accuracy and user trust.

weCureIT | Next.js, Spring Boot & Python, REST APIs, SQL, Authentication Aug 2025 – Dec 2025

- Built a secure, full-stack scheduling platform with a Next.js frontend and Spring Boot/Python backend services, designing a conflict-free database schema and authenticated REST APIs for fast availability queries and reliable booking.