CATHERINE JOHNSON

SOFTWARE ENGINEER & AI RESEARCHER

PROFESSIONAL SUMMARY

Software Engineer & AI Researcher with 11 years full-stack development and AWS cloud expertise. Principal Consultant at Innovation Eco Solutions building enterprise applications with focus on AI/ML research and implementation. AWS multi-certified, expert in Angular, React, Node, Python, machine learning frameworks, and cloud architecture. Proven leader managing engineering teams with performance awards. Specialises in scalable enterprise solutions, AI/ML research integration, and modernising applications to AWS infrastructure with cutting-edge AI capabilities.

CERTIFICATIONS



KEY TECHNICAL SKILLS

- Frontend Development: Angular (11 years), React (9 years), HTML5, CSS3, SCSS, Bootstrap, Styled Components, micro frontends, typescript
- Backend Development: Node (11 years),
 Express, NestJS, Python, Flask API, micro services, type-safe APIs
- State Management: RxJS, NgRx, Redux
- Authentication & Security: JWT, OAuth
- Databases & Data Storage: SQL, MongoDB, Apache Cassandra, Redis
- AI: NLP, ML, LLM, ML
- Message Queuing & Streaming: Kafka, RabbitMQ
- Cloud & Deployment: AWS (S3, EC2, Lambda, Amplify and more), CI/CD pipelines
- Testing: Jest, Mocha, Playwright, Angular Testing, TDD methodologies

ADDITIONAL QUALIFICATIONS

- Leadership & Team Management: Extensive experience managing engineering teams and mentoring junior developers across cross-functional environments
- Agile & Project Management: Extensive experience with Scrum methodology, sprint planning, stakeholder management, and complete product lifecycle oversight from conception to delivery
- Technical Documentation: Strong technical writing skills for API documentation, system architecture, and establishing coding standards and best practices
- Problem Solving & Optimisation: Proven track record in complex system debugging, performance optimisation, and architectural planning for scalable solutions
- Development Operations: Proficient in version control (Git/GitHub), project tracking (JIRA/Confluence), code reviews, and quality assurance processes
- Communication & Strategy: Client communication, requirements gathering, implementation strategising, project estimation, and resource allocation

EDUCATION

M.Tech. Information Technology2013 Karunya University

AWARDS

Star of the Quarter 2020 Iron Pillar 2019