

# ASWATH KRISHNA

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## EDUCATION

### California State University, Long Beach

*Master of Science (M.S.), Computer Science*

• **GPA:** 3.4 / 4.0

• **Coursework:** Software Engineering, Computer Architecture, Analysis of Algorithms, Machine Learning & Data Systems, Artificial intelligence

**Jan 2025 - Dec 2026**

### Kumaraguru College of Technology

*Bachelor of Engineering in Computer science*

• **GPA:** 9.02

• **Coursework:** Data Structures, OOPS, Internet of Things, Database Management, Deep learning

**Jan 2020 - Apr 2024**

*India*

## PROFESSIONAL EXPERIENCE

### Driveyo

*Software Engineer Intern*

- Engineered scalable full-stack web applications using React.js, JavaScript (ES6+), HTML5, and CSS3, leveraging Git for version control; improved UI responsiveness by 35% through component optimization and performance profiling.
- Designed and maintained RESTful APIs with Node.js backend services; reduced data retrieval latency by 40% via SQL query optimization, indexing strategies, and efficient relational database schema design.
- Implemented secure authentication (JWT), role-based access control, input validation, and CRUD operations supporting 10,000+ user records with 99.9% uptime in a production environment.
- Spearheaded AI API migration from OpenAI to Google Gemini; reduced API costs by 25% and improved NLP response accuracy by 15% through systematic prompt engineering and A/B testing.
- Optimized application performance by 30% via React state management refactoring, lazy loading, code splitting, and reusable component architecture - improving Lighthouse scores and Core Web Vitals.
- Participated in Agile development cycles, attending daily stand-ups, sprint planning, and retrospectives to ensure timely feature delivery and continuous improvement.
- Implemented end-to-end automation testing with Cypress, improving regression testing efficiency by 50% and reducing manual QA time.

**Jan 2026 - Present**

*Los Angeles, CA (Remote)*

### Desk365

*Software Engineer*

- Led end-to-end front-end migration from Angular 14 to Angular 17 for two customer-facing portals; improved rendering performance, reduced page load latency, and enhanced UI/UX for 10,000+ daily active users.
- Engineered an Automated Ticket Assignment module using Node.js and TypeScript with intelligent routing algorithms; reduced manual support workload by 40% and improved SLA compliance across support queues.
- Developed a secure payment processing module with Stripe API integration; implemented unit and integration tests using Jest with 90%+ code coverage, ensuring zero-defect transactions in production.
- Architected modular React and TypeScript component libraries with documented APIs; reduced feature development time, enforced DRY principles, and improved cross-team code reusability and maintainability.
- Containerized microservices with Docker and built automated CI/CD pipelines using GitHub Actions and deployed to IBM Cloud, cutting release cycle time and increasing deployment reliability.

**Nov 2023 - Dec 2024**

*San Jose, CA*

## PROJECTS

### Stack Store - Full-Stack E-Commerce Platform

- Crafted a responsive, mobile-first e-commerce app with React.js, reusable component architecture, React Hooks state management, and real-time REST API integration for cart and order processing.
- Containerized application with Docker, configured CI/CD pipelines via GitHub Actions, and deployed to AWS

### Splitify - Expense Sharing Application

- Built and consumed RESTful APIs with Express.js, implemented JWT-based authentication, and normalized PostgreSQL schema for secure, accurate financial data
- Wrote unit and integration tests using Jest and Supertest to automate testing and improve code quality

## TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, Python, Java, C++, SQL, Swift, Go, HTML5, CSS3
- **Frontend:** React.js, Angular (14-17), Next.js, React Hooks, Tailwind CSS, Responsive/Mobile-First Design, Vue
- **Backend:** Node.js, RESTful APIs, Express.js, GraphQL, Authentication (JWT/OAuth), CRUD Operations
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis - schema design, query optimization, data validation
- **DevOps & Tools:** Docker, GitHub Actions (CI/CD), Git, Jest, VS Code, IntelliJ IDEA, Automation Testing Frameworks, Operating Systems
- **Cloud Platforms:** AWS