PAYAM DOWLATYARI

Senior Software Engineer

Email: pdowlatyari@gmail.com
Phone: (916) 547-8918
Location: Sacramento, CA, United States
GitHub: https://github.com/payamdowlatyari
LinkedIn: https://linkedin.com/in/payamdowlatyari
Website: https://www.payamd.com

SUMMARY

Full-Stack Software Engineer with 5+ years of experience building scalable web applications and cloud-based platforms. Skilled in front-end and back-end development, API design, and cloud infrastructure. Adept at collaborating with stakeholders, leading projects from concept to production, and delivering secure, reliable, and user-focused products.

EXPERIENCE

Full Stack Software Engineer

Avalon AI | Apr 2024 - Present

- Collaborate with clinical and business stakeholders to translate complex requirements into actionable technical specs for a HIPAA-compliant, multi-tenant platform.
- Architect the full stack (Next.js, Amplify Gen 2, API Gateway/Lambda, Cognito, DynamoDB, S3, OpenSearch), establishing standards for performance, security, and observability.
- Develop a high-performance provider search service with synonyms, n-grams, and geo queries, enabling sub-second search across 200K+ records with zero-downtime rollovers.
- Engineer a reliable data ingestion pipeline (S3 → Glue → Step Functions/Lambda → OpenSearch) to normalize and reindex large datasets weekly; added CloudWatch alarms and monitoring.
- Mentor teammates across the stack, establish testing and release guardrails, unit/integration tests, feature flags/canaries, and CI/CD, improving stability and reducing regressions.

Application AI Software Engineer

Amplify AI | Dec 2020 - Nov 2023

- Shipped and maintained 100+ chatbot instances across Facebook, Twitter/X, and Twilio, plus reusable engagement plugins that accelerated launches and boosted user activation.
- Delivered modern front-end applications with React and Svelte, improving load times and UX through component libraries, SSR, and performance budgets.
- Designed and implemented a client-tailoring toolkit that cut customization cycles from days to hours.
- Developed 200+ automation scripts, services, and CI/CD pipelines, adding test gates, linting, and one-click deployments to raise release velocity and reliability.

Web Developer

Freelance | Sep 2019 - Jan 2021

- Designed and launched modern, responsive landing pages and animated portfolios for professionals and creators, emphasizing brand clarity and conversion.
- Implemented SEO best practices (structured data, Open Graph, sitemaps, canonical URLs) to improve discoverability and organic reach.
- Optimized performance through code-splitting, lazy loading, image compression, and CDN caching, achieving 90–100 Lighthouse scores and excellent Core Web Vitals.

EDUCATION

Bachelor of Science in Software Engineering

University of California, Irvine | 2018 - 2020

Capstone: Admin portal & visualizer for EVSE mobile app (MERN), **Honor Society**: NSLS (ΣΑΠ), **GPA**: 3.5

Postgraduate in Full Stack Web Development

California Institute of Technology | 2021 - 2022

Capstone: Full-stack bank portal web app (Angular, Java, Spring Boot, REST API, MySQL, AWS EC2, S3)

SKILLS

Programming & Scripting Languages: HTML5/CSS3, TypeScript/JavaScript, Java, Python, SQL, Bash
Frontend Libraries & Frameworks: React.js, Next.js (App Router), Svelte.js, Angular, Tailwind, Shadcn UI, Framer Motion
Backend & APIs: Node.js (serverless/REST), Express.js, API Gateway/Lambda (Node & Python), Flask, Spring Boot, JSON
Data & Search: OpenSearch 2.x, MongoDB, GraphQL, MySQL, DynamoDB, S3, AWS Glue (PySpark), Step Functions, Redis
Auth & Security: Cognito (user pools, PreSignUp, MFA), JWT/OIDC, IAM least-privilege, WAF, Secrets Manager/SSM
Cloud & DevOps: AWS Amplify Gen 2, CDK, CloudWatch, CloudFormation, EC2, CI/CD, Jira, Jenkins, Git, Vercel, Docker
Testing & QA: Unit/integration tests, Jest, Playwright e2e, Postman, feature flags/canaries, linting/formatting
Performance & Analytics: Lazy loading, CDN caching, Brotli/HTTP/2, GA4, Amplitude, Pinpoint, A/B tests, SEO