Preetham Kyanam

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PROFESSIONAL EXPERIENCE

Logistics Specialist
Air Culinaire Worldwide, Ashburn, VA (Hybrid) | Jul 2024 – Present
- Developed full-stack application integrating Anthropic Claude API for NLP-driven order processing, cutting manual workloads by 30%
- Engineered event-driven data pipelines with AWS Lambda and SQS, automating ETL workflows for logistics and inventory data exceeding 5,000 daily transactions
- Built automated dashboards tracking SLAs, inventory, and order metrics using React and Node.js

Software Engineering Consultant
BOB, Ashburn, VA (Remote) | Jul 2024 – Present (Contract, Part-time)
- Designed and launched user-facing features for mobile fare comparison app using React Native, increasing user engagement by 25%
- Enhanced API reliability and backend scalability through optimized caching and load balancing strategies
- Conducted code reviews and established security-first coding standards for production releases

Full Stack Developer
System Soft Technologies, Ashburn, VA (Hybrid) | Sep 2022 – Mar 2024 (Part-time until May 2023)
- Built scalable backend services and RESTful APIs with Node.js and Express, supporting 500,000+ monthly users
- Delivered secure, responsive web solutions aligned with HIPAA and NIST compliance frameworks
- Implemented CI/CD pipelines using GitHub Actions, reducing deployment time by 35%

Campus Leader
Apple, Blacksburg, VA (Remote) | May 2018 – Feb 2019
- Represented Apple on campus through Swift programming workshops and developer bootcamps for 200+ students

EDUCATION

Bachelor of Science in Computer Engineering
Virginia Tech, Blacksburg, VA | May 2023
- GPA: 3.15/4.0
- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Operating Systems

SKILLS

Languages: JavaScript, TypeScript, Python, Swift, C++, HTML, CSS

Frameworks: React.js, React Native, Node.js, Express, Next.js

Tools & Platforms: AWS (Lambda, SQS, EC2), Docker, Terraform, GitHub Actions, Jenkins, Jira, Postman

Databases: PostgreSQL, MongoDB, Redis

Certifications: AWS Certified Cloud Practitioner, AWS AI Practitioner, AWS Machine Learning Engineer (in progress)

PROJECTS

CLI-PK
JavaScript, Node.js
  • Built AI-powered terminal coding assistant with multi-provider LLM support (Anthropic, OpenRouter). Implemented self-reasoning error recovery system that automatically debugs and fixes failed operations. Designed permission management system, session tracking, and real-time command execution streaming.

Link: github.com/pkyanam/cli-pk

GBA Emulator (gba-next)
TypeScript, Next.js
  • Built Game Boy Advance emulator from scratch with cycle-accurate ARM7TDMI CPU emulation. Implemented memory management, graphics rendering, and instruction decoding in TypeScript.

Link: github.com/pkyanam/gba-next

ArduRoomba
C++
  • Open-source Arduino library for interfacing with iRobot Roomba Create 2 specification. 35+ GitHub stars, 9 forks — actively maintained with community contributions.

Link: github.com/pkyanam/ArduRoomba