

Vaishak Menon

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WORK EXPERIENCE

Finchirp	Remote
<i>Backend Software Developer</i>	<i>Aug 2025 - Present</i>
<ul style="list-style-type: none">Architected real-time financial data integration system integrating multiple third-party APIs with caching layer and RESTful endpoints, enabling platform to deliver live market data to users at scale using Agile methodologies.Developed proprietary multi-factor scoring algorithm combining weighted data from multiple sources to identify market trends, with optimized query performance through intelligent caching strategies.Delivered full-stack features across 3,000+ LOC in 2-week sprint cycles, integrating multiple external APIs, designing database schemas, and managing migrations using Jira for project tracking and coordination.	
University of Alabama at Birmingham	Birmingham, Alabama
<i>Computer Science Teaching Assistant</i>	<i>Aug 2022 - May 2025</i>
<ul style="list-style-type: none">Assisted in teaching Data Structure and Algorithms in Python and Java and Systems Programming in C.Provided feedback on more than 400 assignments each semester, maintaining less than 72 hour turnaround time.Mentored students in core programming concepts, guided them through assignment completion, and delivered in-depth code feedback to accelerate skill development.	
Maven Wave Partners	Chicago, Illinois
<i>Infrastructure Intern</i>	<i>Jun 2023 - Aug 2023</i>
<ul style="list-style-type: none">Authored comprehensive training documentation on YAML/Terraform and created interactive demos for cloud technologies, accelerating new employee onboarding and adoption of Infrastructure as Code practices.	
<i>Infrastructure Intern</i>	<i>Jun 2022 - Aug 2022</i>
<ul style="list-style-type: none">Refined Terraform configurations to finalize a scalable GCP environment and streamlined deployment documentation to maintain consistent infrastructure management across the organization.	
<i>Infrastructure Intern</i>	<i>Jun 2021 - Aug 2021</i>
<ul style="list-style-type: none">Engineered a secure data-sharing microservice using Kubernetes, enabling seamless data exchange between provider and third-party companies within a progressive GCP implementation.	

EDUCATION

University of Alabama at Birmingham	Birmingham, Alabama
<i>B.S in Computer Science</i>	<i>Graduation Date: Apr 2024</i>
<i>M.S in Computer Science</i>	<i>Graduation Date: May 2025</i>

PROJECTS

Portfolio RAG Chatbot Next.js 15, React 19, FastAPI, ChromaDB, Redis, Groq API
<ul style="list-style-type: none">Built a real-time streaming interface using Next.js 15 and Server-Sent Events (SSE) to visualize "chain-of-thought" reasoning, backed by a secure Edge Proxy to mask API keys and ensure network resilience.
<ul style="list-style-type: none">Optimized retrieval via hybrid semantic-lexical reranking and negative inference detection, achieving 2.12s mean latency and eliminating hallucinations for non-existent entities.
Pomodoro Focus Next.js 15, React 19, TypeScript, PostgreSQL, Tailwind v4
<ul style="list-style-type: none">Developed a production productivity platform using Next.js 15 and React 19, leveraging React Server Components for optimized rendering and Tailwind CSS v4 for a responsive glassmorphism UI.Engineered a strict Content Security Policy (CSP) and custom subdomain authentication flow via Clerk to securely manage third-party media integrations and resolve cross-site cookie restrictions.

CERTIFICATIONS & SKILLS

Certifications: Certified Kubernetes Administrator, AWS Certified Cloud Practitioner, AWS Certified AI Practitioner

Skills: Python, TypeScript, React, Next.js, Java, C, FastAPI, PostgreSQL, Redis, Docker, Kubernetes, Terraform, GCP, AWS, Git