Eshwar Hebbur Shivakumar

(857) 390-5559 | Sunnyvale, CA | hebburshivakumar.e@northeastern.edu | [LinkedIn](#) | [GitHub](#)

WORK EXPERIENCE

Software Engineer   January 2024 - August 2024
Hologic Inc (Project: Genie)   *Marlborough, MA*
Concepts: Cloud Computing, Infrastructure as Code (IaC), Software Performance Optimization, AI/ML Integration

- **Led** the development of **3 AI-driven chatbots** integrated with **OpenAI's GPT series**, achieving a **40% employee onboarding** rate and cutting monthly licensing costs by $150k.
- Enhanced API performance by **40%** by migrating all endpoints from **Flask to Quart**, for asynchronous processing.
- Achieved **95%** test coverage with **PyTest for API endpoints**, reducing post-deployment issues by **40%**, ensuring reliable feature rollouts.
- Optimized **Azure infrastructure (CosmosDB, Cognitive Services)** with **Terraform and PowerShell**, enhancing deployment efficiency for **containerized applications** on **Azure WebApp**.

Software Engineer 1   January 2020 - August 2022
Epsilon (Project: People Cloud Customer)   *Bengaluru, India*
Concepts: Distributed Systems, CI/CD, API Development, Event-Driven Architecture, Monitoring & Automation

- Automated monitoring of 120 test pipelines using Angular application, freeing up 20+ hours/week for team productivity.
- **Achieved 50% reduction** in deployment time using **CI/CD** to automate cloud infrastructure and feature rollout.
- Implemented automated **PowerShell** workflows to synchronize Bitbucket configurations across **80+ client environments**, enhancing system consistency.
- Boosted **system reliability by 30%** through refactoring Java Spring applications, improving maintainability and reducing operational risks.
- Designed and implemented over **30 secure REST APIs in Java**, integrating with **AuroraDB and Okta** for authorization.

SKILLS

Programming Languages	Java, Python, Golang, PowerShell, TypeScript, Bash
Frameworks & Databases	Flask, Spring, React, Kafka, RabbitMQ, SQL, MongoDB
Cloud & DevOps	Docker, AWS, Azure, Kubernetes, Terraform, ArgoCD, GitHub Actions
Certifications	**AWS Certified Solutions Architect**, **HashiCorp Certified: Terraform Associate**

EDUCATION

Masters in Computer Science, Northeastern University, Boston, MA (**GPA : 3.81/4**)
Relevant Coursework: Cloud Computing, Databases, Mobile Development, Distributed Systems

B.Tech in Computer Science and Engineering, PES University, India (**GPA : 8.66/10**)

PROJECTS

[**Cruddur**](#) (Microservices Architecture, Containerization, Serverless Computing, Cloud Deployment, Observability)

- Conceptualized and containerized a micro-blogging platform on React and Flask, deployed on AWS through Cloud Formation.
- Implemented Decentralized Authentication via AWS Cognito, integrated observability with HoneyComb, facilitated error logging using Rollbar and Serverless image processing using AWS Lambda.

[**EverWrite**](#) (Configuration Management, GitOps, Infrastructure Observability, Workflow Automation)

- Containerized and deployed 3 microservices on Minikube K8 cluster. Leveraged Prometheus to aggregate metrics and monitor the cluster state, Grafana to create a dashboard for visualization.
- Configured Continuous Deployment GitHub Actions workflow to build and push Docker images of frontend and backend services.

[**RideShare**](#) (Load Balancing, Message Queuing, Distributed Coordination, Service Orchestration, Data Consistency)

- Developed backend, master-slave architecture for DbaaS. Management of worker pods using Docker and Zookeeper. Database consistency using RabbitMQ.
- Designed and deployed an Orchestrator pod on Docker for high availability, fault tolerance, and scalability, load balancing APIs on AWS EC2.