

Utkarsh A

Full Stack developer

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Portfolio: utkarshportfolio.utkarshsolutions.com



PROFESSIONAL SUMMARY

- **Full Stack Developer** with **4+ years** of experience in end-to-end web application development using **Java, Spring Boot, Microservices, React, and Angular**, focused on delivering scalable, maintainable, and user-centric solutions.
- Built and deployed **RESTful APIs** using Spring Boot, integrating **OpenAI** and **AWS AI** services to power **NLP-driven features** like text summarization, classification, and recommendations — accelerating automation and enhancing user experience across enterprise platforms.
- Developed modular, high-performing **front-end** components using **React, Angular, Redux, Material UI**, and **Bootstrap**, delivering seamless, responsive user experiences across complex dashboards and workflows — improving load times and user engagement.
- Created scalable **backend microservices** with **Spring Boot** and automated key workflows using **Python** scripting, improving service availability, deployment speed, and code maintainability.
- Designed scalable data access layers using **Cassandra, Cosmos DB, MongoDB**, and **MySQL**, optimizing **stored procedures** and queries to support concurrent read/write operations and improve system responsiveness.
- Hands-on with **CI/CD pipelines** using **Azure DevOps, AWS CodePipeline**, and **CloudFormation** along with applied **GitOps** practices and leveraged **GitHub Copilot** to accelerate automated deployments and enable rapid feature iteration, with **SonarQube** integration for the code quality checks.
- Containerized applications using **Docker** and orchestrated deployments with **Kubernetes**, managing **AWS** infrastructure (**IAM, Secrets Manager, CloudWatch, X-Ray, CDK**) to ensure scalable, secure, and highly observable environments.
- Implemented end-to-end testing with **Postman, JUnit, Mockito**, and **JMeter** for REST APIs; integrated **Swagger** for validation; and used **ELK Stack, AWS CloudWatch**, and **Zipkin** for monitoring and tracing — enhancing system reliability and reducing defects.

TECHNICAL SKILLS

- **Languages & Backend:** Java 8+ (up to 21), Spring Boot 2.x/3.x, Microservices, RESTful API Design, Python, JSON, JWT.
- **Frontend:** React (v16–18), Angular (v10–14), Redux, Material UI v5, Bootstrap 5, TypeScript, JavaScript, HTML5, CSS3.
- **LLM & Gen AI Integration:** OpenAI APIs, Azure AI & AWS AI Services, Prompt Engineering, Response Streaming.
- **Cloud & DevOps:** AWS (ECS, EC2, Lambda, CodePipeline, CloudFormation, IAM, Secrets Manager, CloudWatch, XRay), Microsoft Azure (App Services, Key Vault), Azure DevOps, GitOps, CI/CD, Terraform.
- **Containerization & Orchestration:** Docker, Kubernetes, Helm.
- **Databases:** Cassandra 3.x/4.x, MongoDB 4.x–6.x, Azure Cosmos DB, MySQL (5.6–8.0), PostgreSQL (13–15), NoSQL Data Modelling, SQL Stored Procedures, Database Functions.
- **Tools & Build Systems:** Git, Maven, Gradle, Azure Repos, GitHub Actions, Jenkins, IDEs (IntelliJ, VS Code).
- **Testing & Monitoring:** JUnit, Mockito, Postman, Swagger, Azure Monitor, ELK Stack, AWS CloudWatch, Agile, Scrum.

PROFESSIONAL WORK EXPERIENCE

Verisk

Full Stack Developer

Dec 2023 – Present

Jersey City NJ

- Designed and implemented **Java 17 & 21** with **Spring Boot 3.x+** microservices, building secure **RESTful APIs**, as well as **GraphQL** and **gRPC endpoints**, to power internal platforms and customer service dashboards, enabling real-time access to insurance case data and improving service responsiveness.
- Optimized **Spring Boot** microservices by leveraging **data-driven metrics** and **experimentation**, reducing average **API** response time by **40%** and handling over **500,000 daily requests** with **99.9% uptime**, which improved dashboard reliability and user experience.

- Developed dynamic and user-centric **React (v16–18)** interfaces for the customer service dashboard, integrating **Material UI v5** and **Redux 4+** to streamline complex insurance workflows and reduce customer query resolution time by enhancing usability and data visibility.
- Integrated **Apache Kafka 3.x** for real-time event streaming of insurance case updates, improving system throughput by **30%** and enabling near-zero latency notifications in a distributed, **event-driven architecture**.
- Leveraged **Spring Cloud Netflix Eureka 3.x** for fault-tolerant service discovery and intelligent load balancing, enhancing microservices resilience and scalability within a **cloud-native architecture**.
- Collaborated with **cross-functional data science teams** to integrate **OpenAI APIs** and **Azure AI** into backend services to enable **NLP** capabilities such as text summarization and classification, improving document processing accuracy by **25%** and accelerating customer query handling.
- Engineered scalable persistence solutions using **Spring Data** and **Hibernate** across **SQL (PostgreSQL 14+)** for transactional data and **NoSQL (MongoDB 6.x, Cassandra 4.x)** for high-throughput analytics, reducing database latency by **30%** and supporting a **2x** increase in concurrent transactions.
- Implemented **Redis** as an in-memory cache layer to accelerate API responses, reduce database load, and enhance application performance for frequently accessed data.
- Engineered robust **CI/CD** pipelines using **AWS CodePipeline**, **Jenkins**, and **GitHub Actions** for automated deployments, and implemented **infrastructure as code (IaC)** with **AWS CloudFormation** and **AWS CDK** to orchestrate scalable, containerized microservices deployments on **AWS ECS** and **Kubernetes (EKS)**, ensuring high availability and resilience.
- Analyzed **application performance data** using **Prometheus** and **Grafana** for real-time monitoring and reporting, identifying and **resolving operational issues** to drive continuous improvement in system reliability.
- Automated **deployment and infrastructure tasks** using **Bash scripting** and **Terraform** to streamline development workflows and reduce manual effort by **40%**, thereby improving overall developer experience.
- Maintained code quality and reduced production incidents by implementing **end-to-end testing** with **JUnit 5+** and **Mockito 4+**, while leveraging **Git** and **Bitbucket** for version control and actively collaborating with cross-functional product and design teams in daily **Agile** ceremonies to drive continuous improvement.

Technologies Used: Java 17/21 • Spring Boot 3.0+ • Spring Data JPA (Hibernate 6.x) • Microservices • RESTful APIs • React 18+ • Material UI v5+ • Redux 4+ • Apache Kafka 3.x • Netflix Eureka 3.0+ • OpenAI APIs • Azure AI • MongoDB 6.x • Cassandra 4.x • PostgreSQL 14+ • Docker 20.10+ • AWS ECS • AWS CloudFormation • AWS CodePipeline • AWS RDS (PostgreSQL 14+) • Selenium 4+ • Jasmine 3+ • Karma 6+ • JUnit 5+ • Mockito 4+ • Git • Bitbucket • GitHub Copilot • Agile methodologies

Airtel

Aug 2019 – Aug 2021

Full Stack Developer

India

- Led full-stack development of telecom portal features using **Angular (v10-12)** and **Java 8 & 14** with **Spring Boot 2.x**, enhancing customer experience across billing, support, and AI-driven recommendation workflows.
- Developed modular **Angular 10 & 12+** components with **Bootstrap 4.6** to manage user interactions, improving user engagement by **20%** through responsive and reusable **UI elements**.
- Built **Spring Boot APIs** for intelligent search and personalized content by integrating **early-stage LLMs** via **OpenAI** and **Azure AI**, enhancing user experience on Airtel's customer platform.
- Implemented secure **RESTful APIs** using **Spring Security 5.3+** and **JWT authentication**, ensuring robust user authorization and data protection across the application.
- Optimized data persistence using **Azure Cosmos DB** and **MySQL (5.7 & 8.0)** databases by refining queries and indexing strategies, resulting in a **35%** reduction in query response times and improved scalability.
- Utilized **Postman** and **Swagger 2.0/OpenAPI 3.0** to design, test, and document **RESTful APIs**, ensuring consistent interface standards and streamlined collaboration across development teams.
- Automated **CI/CD pipelines** and deployment workflows using **Azure DevOps**, **Git**, **Kubernetes 1.18**, **Infrastructure as Code (Terraform, Helm)** and **Python 3.7+** scripting, enabling continuous delivery and improving operational efficiency through **Agile** collaboration.

Technologies Used: Java 8/14• Spring Boot 2.x• Spring Security 5.3+• RESTful APIs• Angular 10/12+• Bootstrap 4.6+• JWT
• Azure Cosmos DB• MySQL 5.7/8.0• OpenAI GPT-2/3 APIs• Azure Cognitive Services• Kubernetes 1.18+• Azure DevOps•
Python 3.7+• Git• Postman• Swagger 2.0/Open API 3.0• Agile

EDUCATION

Master of Science (M.S.) in Computer Science
University of Houston Clear-Lake

CERTIFICATIONS

AWS Certified
AWS Cloud Practitioner Certification