Aheed **Shah**

SOFTWARE ENGINEER

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Profile

Full-stack software engineer with about 2 years of experience specialising in cloud-native applications and distributed systems. Proven track record of developing and maintaining scalable enterprise solutions using AWS serverless architecture, Java, C# and TypeScript. Strong expertise in event-driven architectures and REST API development, with hands-on experience building critical integrations. First-class Computer Science graduate skilled in designing resilient systems that connect complex business processes. Particularly experienced in cloud infrastructure design, middleware integration, modern JavaScript frameworks and implementing robust monitoring solutions.

Work Experience

Collectiv Food
London, England

BACK-END ENGINEER
April 2024 - Present

- Maintained and enhanced a monolithic C# REST API architecture, serving as the backbone for the Order Management System.
- Designed and implemented event-driven integrations between multiple business systems (Xero, Dear/Cin7, Track-POD) using AWS services (SNS, SQS, Lambda, DynamoDB, and CloudWatch), ensuring reliable data flow across the platform.
- Designed, developed and maintained 50+ RESTful APIs using C#, enhancing data-driven metrics and improving Front-End functionality, which resulted in faster response times and a more seamless user experience.
- Maintained and optimised 40+ AWS Lambda functions as microservices within an event-driven architecture, enabling real-time data processing and seamless integration with third-party applications.
- Developed a fine-tuned AI model that transforms natural language prompts into executable SQL queries by leveraging the company's schema, simplifying data access.
- Architected scalable middleware solutions leveraging AWS serverless architecture and advanced AI platforms, including OpenAI and Anthropic, to seamlessly integrate warehouse management, invoicing, and delivery tracking systems, thereby driving improved operational efficiency.

Toddler World
London, England

CONTRACT SOFTWARE ENGINEER
September 2023 - March 2023

- Led the development of Toddler World's web application, utilising React and SCSS for a modern and visually appealing user interface.
- Worked as a Founding Software Engineer and set up the infrastructure using AWS Services such as Route 53, S3 and CloudFront.
- Conducted regular user feedback sessions and implemented iterative improvements, enhancing overall user satisfaction and retention rates.
- Implemented a robust testing strategy by incorporating React Testing Library and Jest, ensuring the reliability and stability of the web app.
- Implemented CI/CD pipelines to automate the Build and Test processes, streamlining development pipelines and enhancing overall efficiency.
- Collaborating with clients to determine project scope and requirements and providing ongoing maintenance for the websites.

Intuit
London, England

SOFTWARE ENGINEERING INTERN
June 2022 - Sept. 2022

- Worked on the integration of exceptions to VAT Detail, VAT 100, and VAT Exception Reports using React, Java, Sass and other technologies which boosted customer confidence about the money they were paying to HMRC.
- Collaborated effectively with senior engineers on enhancing the Java monolith by incorporating new features and implementing bug fixes including working on the transformation from a monolith to micro-services architecture.
- Diagnosed and fixed complex software bugs on both the front-end and back-end aspects of the product.
- Actively participated in an Agile development team and within a cross-functional Triad (PDs, PMs, XDs), to drive successful completion of tasks.
- Ensured new code and existing components aligned with accessibility guidelines and enhanced accessibility features.

Education

Goldsmiths, University of London
London, England

BACHELOR OF SCIENCE (HONS.) IN COMPUTER SCIENCE
Oct. 2020 - Aug. 2023

- **First-Class Honours:** Graduated with First-Class Honours, demonstrating a strong academic performance and commitment to excellence.
- **Programming/Algorithmic Modules:** Front end Web (91%), Algorithms(90%), Java for Industry (90%), Programming(92%), Databases (93%).

Programming Skills

Front-end	HTML5, CSS3, JavaScript, SCSS, React, TypeScript, Vue
Back-end	Java, JavaScript, Express, REST API, Python, TypeScript, C#, Pulumi, Terraform
Cloud	AWS Serverless, ECS, Open Search, S3, Route 53, Lambda, DynamoDB, API Gateway, Cognito, SQS, SNS, OpenSearch
JavaScript Libraries	Node, P5, React, Express, TypeScript, Vue
Testing Frameworks	React Testing Library, Sinon, JUnit, Jest, Chai, Mocha, XUnit
Databases and Tools	Postgres, MySQL, DynamoDB, Git, Postman, Jira, Open AI and Anthropic APIs, CI/CD Pipelines, Github, BitBucket, YAML