

JUSTINE GEORGE

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SUMMARY

Master's graduate in Computer Science from UT Dallas, with 3+ years of professional experience as a Software Engineer. Developed and optimized scalable backend systems with expertise in Java, Python, Go, and TypeScript. Built RESTful APIs, microservices architectures, and full-stack applications, all with a focus on performance and security. Deployed and managed distributed systems using AWS and GCP cloud services. Eager to tackle complex challenges and contribute to impactful projects in backend or full-stack roles.

TECHNICAL SKILLS

Languages: Java, Python, Go, TypeScript, JavaScript, SQL, GraphQL, C/C++, Bash

Frameworks & Libraries: Spring, gRPC, WebRTC, Kafka, Flask, Express, Selenium, Mockito

Databases & Data Stores: PostgreSQL, Oracle, Cassandra, Redis, MongoDB, DynamoDB, NoSQL

Cloud & DevOps: Docker, Kubernetes, Jenkins, AWS, GCP, Terraform, CloudFormation, Jira

Frontend Technologies: React, Next.js, Redux, Jest, Playwright, Tailwind CSS, Bootstrap, HTML

EXPERIENCE

Software Engineer Grad Intern, Backend – Resi Media (Allen, TX) May 2023 – Aug 2023

- Developed scalable RESTful API endpoints using Spring Boot for a prominent charity, serving over 5,000 global partners and processing over a million metadata requests monthly.
- Reduced anomaly response time by 40% through the implementation of a Terraform-automated GCP alert system, integrated with Slack and monitored by New Relic, handling over 1,000 weekly video uploads.
- Designed and implemented an FFmpeg-based feature in the Content Library to efficiently extract M4A audio from MPEG-DASH streams, enabling single-click audio downloads for users, improving accessibility and user experience.
- Tech Stack: Java, Spring, Docker, GCP, Terraform, Cassandra, Redis, New Relic, TestNG, FFmpeg, DASH

Software Development Engineer, Full-Stack (80% Backend) – Oracle (Bangalore, India) Aug 2019 – Jul 2022

- Engineered over 30 RESTful API endpoints using Spring Boot and Spring Batch for Oracle's core banking platform, optimizing operations for over 900 global banks.
- Achieved 95% faster creation of Flyway SQL migration scripts for a key banking project by developing a Python CLI tool, which was adopted by multiple teams across the organization.
- Improved page load times by 60% by developing responsive UI components using JavaScript for a React-based SPA, achieving marked gains in FCP and TTI performance metrics over the original Knockout.js architecture.
- Optimized app architecture by simplifying data fetching processes and removing 50 redundant wrapper components, leading to a 40% reduction in Docker image size and faster build times.
- Conducted over 350 code reviews and collaborated with cross-functional teams to enhance code reliability and product functionality, resulting in a 20% reduction in technical debt.
- Tech Stack: Java, Spring, Python, Docker, SQL, Oracle, Redis, JUnit, Mockito, Selenium, React, JavaScript

PROJECTS

Nexus - Decentralized Messaging Service Go, WebRTC, Docker, gRPC, Kubernetes, TLS Jul 2024

- Engineered a decentralized messaging service using Go and WebRTC for peer-to-peer communication, secured with end-to-end encryption via TLS, eliminating the need for centralized servers.
- Deployed a distributed directory service with gRPC on Kubernetes, enabling efficient peer discovery and managing peer churn, while ensuring scalable and resilient system performance. ([GitHub Repo](#))

Book Fellow - Social Media Web App Java, Spring, PostgreSQL, Next.js, AWS (EC2, S3, SNS, Lambda) Mar 2024

- Utilized AWS Lambda triggered by SNS notifications for event-driven processing, enhancing scalability and operational efficiency by handling user activity tracking, automated moderation, and notification handling.
- Developed secure authentication and role-based access control (RBAC) using Spring Security and OAuth2, ensuring proper access control and data protection. ([GitHub Repo](#))

Tab Keeper (Featured Chrome Extension) TypeScript, React, Redux, Cloud Firestore, Emotion CSS, Vitest Jul 2023

- Achieved 3,000 installs and 1,600 weekly active users by developing the extension with React and enabling sync across Chrome desktop browsers with Cloud Firestore. ([GitHub Repo](#))

EDUCATION

Master of Science (M.S.) in Computer Science Aug 2022 – May 2024

The University of Texas at Dallas (UTD), Richardson, TX

3.72 GPA

Courses: Algorithms & Data Structures, Distributed Systems, Operating Systems, Database Design, Information Security

Bachelor of Technology (B.Tech.)

Jul 2015 – May 2019

National Institute of Technology Calicut (NITC), India

Courses: Data Structures, Computer Networks, Intelligent Systems Design, Object-Oriented Programming