

# JUSTINE GEORGE

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## SUMMARY

**Software Engineer** with **over three years of experience** and a **Master's degree in Computer Science** from **UT Dallas**. Skilled in developing and optimizing **scalable backend systems** with expertise in **Java, Python, Go, and TypeScript**. Built **robust 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

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

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)

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