

JUSTINE GEORGE

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SUMMARY

Motivated and detail-oriented **backend software engineer** with **3 years of experience** and a **Master's degree in Computer Science** from **UT Dallas**. Proficient in **Java, Python, JavaScript, SQL, RESTful API development, microservices architecture, and AWS cloud services**. Experienced in **developing and optimizing server-side logic, managing databases**, and **contributing to scalable distributed systems** through both professional roles and academic projects. Strong foundation in **algorithms, data structures, and software design**. Passionate about **building reliable and efficient systems** and eager to join a dynamic team to further professional growth and contribute to impactful projects.

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**

Coursework: Algorithms, Operating Systems, Data and Information Security, Database Design, Big Data

Bachelor of Technology (B.Tech.) Jul 2015 – May 2019
National Institute of Technology Calicut (NITC), India **3.41 GPA**

Coursework: Data Structures, Computer Networks, Design of Intelligent Systems

TECHNICAL SKILLS

Languages: Java, Python, SQL, TypeScript, JavaScript, GraphQL, C/C++, Shell scripting

Frameworks and Tools: Spring, Kafka, Flask, Express, JUnit, Mockito, Maven, Gradle

Databases: PostgreSQL, Oracle, DynamoDB, Cassandra, Redis, MongoDB, NoSQL

DevOps & CI/CD: Docker, Kubernetes, Jenkins, AWS, GitHub Actions, Terraform, GCP

Frontend: React, Next.js, Redux, Tailwind CSS, HTML/DOM, AJAX, Jest, Vitest

Others: RESTful Web Services, SOAP, Accessibility (WCAG), Message Queues

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 efficiently processing **over 1M metadata requests** monthly
- **Created a Terraform-automated GCP alert system** integrated with Slack, monitored by New Relic, resulting in a **40%** reduction in anomaly response time and handling a workload of **over 1K weekly video uploads**
- **Led a technical research initiative** on extracting M4A audio from DASH MP4 streams using FFmpeg, facilitating single-click access to audio downloads from the video archive
- **Conducted 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 Boot, Docker, GCP (Pub/Sub), Redis, Cassandra, TestNG, Node.js, TypeScript

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 a 60% improvement in page load times** by developing responsive UI components for a React-based SPA, achieving marked gains in FCP and TTI performance metrics over the original Knockout.js architecture
- **Created a Python automation tool** that optimized SQL entry generation, resulting in a **95%** reduction in database update processing time for a key financial system, adopted by multiple teams
- **Optimized app architecture** by removing 50 redundant wrapper components, leading to a **40%** reduction in Docker image size and accelerating deployment speed
- **Delivered technical presentations** to stakeholders, driving alignment on architecture decisions and enhancing team collaboration
- Tech Stack: Java, Spring Boot, Spring Batch, Docker, Redis, Python, JUnit, SQL, Oracle, Swagger, React, JavaScript

PROJECTS

BookFellow – Social Media Feed Java, PostgreSQL, Hibernate ORM, Docker, AWS (EC2, ElastiCache, SNS) Aug 2023

- **Developed secure authentication and role-based access controls** using OAuth2 in a Java/PostgreSQL environment, enhancing system security and data protection
- **Developed and implemented a CI/CD pipeline** using Jenkins, Docker, and AWS EC2, which automated deployments and testing, cutting deployment time by **50%** and improving system availability
- **Optimized API throttling and rate limiting**, ensuring stable performance under high traffic conditions ([GitHub Repo](#))

Planet – Event Planner App Next.js, React, DynamoDB, GraphQL, Docker, AWS (Amplify, SQS), Jest Dec 2023

- **Implemented an event-driven architecture** using Amazon SQS to facilitate real-time event streaming for dynamic event planner workflows, optimizing scalability and enabling immediate data synchronization

- **Optimized DynamoDB queries and indexing**, resulting in **30%** faster backend performance, improving event operations and user data management efficiency ([GitHub Repo](#))

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

- **Boosted store rating to 4.9 stars** and drove an **88%** surge in user adoption, surpassing **1.8K installs** and **1K weekly active users** through i18next integration and multilingual extension localization
- **Applied regression testing** and version control best practices to maintain code quality and track changes ([GitHub Repo](#))