

# JUSTINE GEORGE

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## EDUCATION

### Master of Science (M.S.) in Computer Science

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

Aug 2022 – May 2024

**3.74/4.00 GPA**

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

### Bachelor of Technology (B.Tech.)

National Institute of Technology Calicut (NITC), India

Jul 2015 – May 2019

## TECHNICAL SKILLS

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

**Backend:** Spring Framework, Apache Kafka, AWS Lambda, Node.js, Express, OAuth 2

**Databases:** PostgreSQL, MongoDB, Oracle SQL, Cassandra, AWS S3, Redis

**DevOps:** Docker, GitHub Actions, Jenkins, Prometheus, Grafana, Terraform

**Frontend:** Next.js, Astro, React, Redux, Emotion CSS, Tailwind CSS, Jest

**Cloud Platforms:** Amazon Web Services (AWS), Google Cloud Platform (GCP)

## EXPERIENCE

### Software Engineer Grad Intern (Backend) – Resi Media

May 2023 – Aug 2023

- **Architected and developed scalable REST APIs** with Spring Boot, enhancing global access for **over 5,000 churches** to the Resi Content Library's metadata, managing **over 1 million metadata requests** each month
- **Implemented a GCP alert system** automated with Terraform, integrating Slack notifications for video upload anomalies, boosting responsiveness by **40%** and analyzing **over 1000 video uploads weekly** to rapidly detect performance bottlenecks
- **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
- Tech Stack: Java, TypeScript, Docker, GCP, Redis, Cassandra, TestNG

### Software Developer (Full Stack) – Oracle

Aug 2019 – Jul 2022

- **Developed 20+ REST API endpoints** using Spring Boot for the Interest and Charges module in Oracle's core banking platform, directly impacting the operations of **900+ global banks**
- **Engineered a Python automation tool** for SQL entry generation that optimized database updates for a key financial module, cutting processing time by **95%** and adopted across cross-functional teams
- **Overhauled app architecture** by phasing out 50 redundant wrapper components, yielding a **40% reduction in Docker image size** and boosting deployment efficiency
- **Collaborated on API and database architecture**, leading technical presentations and advancing team coding practices
- **Created 30+ responsive UI components** with the Oracle JavaScript Extension Toolkit, achieving a **60% increase in page load efficiency**, marked by improved FCP and TTI, over the legacy system
- Tech Stack: Java, JUnit, Docker, Oracle SQL, Swagger, JavaScript (Oracle JET), HTML, CSS

## PROJECTS

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

Jul 2023

- **Achieved a 4.9-star store rating** and **88% increase in user adoption**, surpassing **1100 installs** and **650 weekly active users** by integrating i18n support and localizing the extension into 10 languages
- **Implemented tab data synchronization** across devices with Firebase SDK and Cloud Firestore, utilizing a shared UUID token for secure, seamless access across the Chrome ecosystem
- **Engineered undo/redo functionality** with Redux and a custom dual-stack approach, providing users precise control over tab management and improving usability ([GitHub Repo](#))

### BookFellow – Social Media for Bibliophiles Java, PostgreSQL, Docker, AWS, Prometheus, Grafana, JUnit

Aug 2023

- **Secured user activities and privacy** in the app by implementing JWT authentication and role-based access control with OAuth 2 in a PostgreSQL environment, ensuring safe user interactions
- **Enhanced social timeline interactivity and user engagement** by engineering PostgreSQL transactions to log and update user activities like reviews and comments in real-time
- **Improved observability of the app** deployed on AWS EC2 by establishing Prometheus monitoring for HTTP-exposed service metrics and Grafana dashboards for data visualization ([GitHub Repo](#))

### Planet - Event Planner App Next.js, React, MongoDB, Redux, Passport.js, Docker, Jest

Dec 2023

- **Implemented robust user authentication and role-based access control** with Passport.js, ensuring secure and efficient management of user sessions and access privileges
- **Enhanced backend performance** by implementing **indexing and query optimization** in MongoDB, leading to streamlined event operations and more efficient user data management ([GitHub Repo](#))