

JUSTINE GEORGE

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EDUCATION

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

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

Expected 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, Node.js, Express, Flask, JUnit, OAuth2

Databases: PostgreSQL, MongoDB, Oracle SQL, MySQL, Cassandra, Redis

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

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

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

EXPERIENCE

Software Engineer 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
- **Engineered a GCP-based alert system** through **Terraform automation**, integrating Slack notifications for video upload time anomalies, which significantly heightened system reactivity
- **Led a technical research initiative** on **MP4-to-M4A audio extraction using FFmpeg**, delivering a comprehensive report that shaped the media team's strategy for implementing an audio-only download feature
- Tech Stack: **Java, TypeScript, Docker, GCP, Redis, Cassandra, TestNG**

Software Developer (Full Stack) – Oracle Financial Services

Aug 2019 – Jul 2022

- **Developed over 20+ REST API endpoints** using **Spring Boot**, **Java**, **JUnit**, and **Oracle SQL** for Oracle's core banking platform, impacting **900+ global banks**
- **Engineered a Python tool** for **automating SQL entry generation**, streamlining database updates for the Interest and Charges module, widely adopted by core and 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** 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* store rating** and **88% increase in user adoption**, surpassing **1000 installs** and **550 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 EC2, Prometheus, Grafana, JUnit

Aug 2023

- **Secured user activities and privacy** in the app by implementing **JWT authentication and role-based access control** with OAuth2 in a PostgreSQL environment, ensuring safe user interactions
- **Enhanced social timeline interactivity and user engagement** by engineering PostgreSQL SQL transactions to **log and update user activities** like reviews and comments in real-time
- **Improved observability** of the BookFellow app 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](#))