

# JUSTINE GEORGE

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## EXPERIENCE

- Resi Media, Allen, TX: Software Engineer Intern – Backend** 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, Cassandra, Redis, Docker, GCP, TestNG**
- Oracle Financial Services Software, Karnataka, India: Software Developer – Full Stack** Aug 2019 – Jul 2022
- **Developed 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, Swagger, Oracle SQL, Docker, JavaScript (Oracle JET), HTML/CSS**

## PROJECTS

- TabKeeper (Featured Chrome Extension)** TypeScript, React, Redux, Cloud Firestore, Emotion CSS, Vitest Jul 2023
- **Expanded international user base** by integrating **i18n support**, translating the extension into **10 languages**, which contributed to a **67% surge in user adoption** and reached **over 500 monthly active users**
  - **Implemented tab data synchronization across devices** with **Firestore SDK** and **Cloud Firestore**, utilizing a shared UUID token for secure, seamless user access across the **Chrome ecosystem**
  - **Engineered an undo/redo functionality** using **Redux** and a custom dual-stack approach, enhancing user experience by enabling precise control over tab management ([GitHub Repo](#))
- BookFellow – Social Media for Bibliophiles** Java, PostgreSQL, Docker, AWS EC2, Prometheus, Grafana, JUnit Aug 2023
- **Implemented JWT authentication** and **role-based access control** with **OAuth2** within a **PostgreSQL** environment, securing user activities and privacy for the BookFellow app, ensuring safe user interactions
  - **Engineered PostgreSQL SQL transactions** to log and update user activities such as reviews and comments in real-time, enhancing the **social timeline's interactivity** and **user engagement**
  - **Established Prometheus monitoring** for HTTP-exposed service metrics and **Grafana dashboards** for data visualization, enhancing the **observability** of the BookFellow app on **AWS EC2** ([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](#))

## EDUCATION

- M.S. Computer Science** Expected May 2024  
The University of Texas at Dallas, Richardson, TX  
Coursework: Algorithms, Database Design, Operating Systems, Big Data, Data and Information Security, Machine Learning  
3.74/4.00 GPA
- B.Tech. Electronics & Communication Engineering** Jul 2015 – May 2019  
National Institute of Technology Calicut, Kerala, India

## 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  
**Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Services (AWS)  
**Frontend:** Next.js, Astro, React, Redux, Emotion CSS, Tailwind CSS, Jest