

JUSTINE GEORGE

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EDUCATION

Master of Science (M.S.) in Computer Science	Expected May 2024
The University of Texas at Dallas (UTD), Richardson, TX	3.74/4.00 GPA
Coursework: Algorithms, Database Design, Operating Systems, Big Data, Data and Information Security, Machine Learning	
Bachelor of Technology (B.Tech.)	Jul 2015 – May 2019
National Institute of Technology Calicut (NITC), 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

EXPERIENCE

Software Engineer Intern – Backend: Resi Media, Allen, TX	May 2023 – Aug 2023
<ul style="list-style-type: none">• 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	
Software Developer – Full Stack: Oracle Financial Services Software, Karnataka, India	Aug 2019 – Jul 2022
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Expanded international user base by integrating i18n support, translating the extension into 10 languages, which contributed to an 88% surge in user adoption and reached over 500 weekly 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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)		