

# JUSTINE GEORGE

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## EDUCATION

<b>Master of Science (M.S.) in Computer Science</b>	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	
<b>Bachelor of Technology (B.Tech.)</b>	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

<b>Software Engineer Intern – Backend: Resi Media, Allen, TX</b>	May 2023 – Aug 2023
<ul style="list-style-type: none"><li>• <b>Architected and developed scalable REST APIs</b> with <b>Spring Boot</b>, enhancing global access for <b>over 5,000 churches</b> to the Resi Content Library's metadata</li><li>• <b>Engineered a GCP-based alert system</b> through <b>Terraform automation</b>, integrating Slack notifications for video upload time anomalies, which significantly heightened system reactivity</li><li>• <b>Led a technical research initiative</b> on <b>MP4-to-M4A audio extraction using FFmpeg</b>, delivering a comprehensive report that shaped the media team's strategy for implementing an audio-only download feature</li><li>• Tech Stack: <b>Java, TypeScript, Cassandra, Redis, Docker, GCP, TestNG</b></li></ul>	
<b>Software Developer – Full Stack: Oracle Financial Services Software, Karnataka, India</b>	Aug 2019 – Jul 2022
<ul style="list-style-type: none"><li>• <b>Developed 20+ REST API endpoints</b> using <b>Spring Boot, Java, JUnit</b>, and <b>Oracle SQL</b> for Oracle's core banking platform, impacting <b>900+ global banks</b></li><li>• <b>Engineered a Python tool</b> for <b>automating SQL entry generation</b>, streamlining database updates for the Interest and Charges module, widely adopted by core and cross-functional teams</li><li>• <b>Overhauled app architecture by phasing out 50 redundant wrapper components</b>, yielding a <b>40% reduction in Docker image size</b> and boosting deployment efficiency</li><li>• <b>Collaborated on API and database architecture</b>, leading <b>technical presentations</b> and advancing team coding practices</li><li>• <b>Created 30+ responsive UI components</b> with the Oracle JavaScript Extension Toolkit, achieving a <b>60% increase in page load efficiency</b> over the legacy system</li><li>• Tech Stack: <b>Java, JUnit, Swagger, Oracle SQL, Docker, JavaScript (Oracle JET), HTML/CSS</b></li></ul>	

## PROJECTS

<b>TabKeeper (Featured Chrome Extension)</b>	TypeScript, React, Redux, Cloud Firestore, Emotion CSS, Vitest	Jul 2023
<ul style="list-style-type: none"><li>• <b>Expanded international user base</b> by integrating <b>i18n support</b>, translating the extension into <b>10 languages</b>, which contributed to a <b>67% surge in user adoption</b> and reached <b>over 500 monthly active users</b></li><li>• <b>Implemented tab data synchronization across devices</b> with <b>Firestore SDK</b> and <b>Cloud Firestore</b>, utilizing a shared UUID token for secure, seamless user access across the <b>Chrome ecosystem</b></li><li>• <b>Engineered an undo/redo functionality</b> using <b>Redux</b> and a custom dual-stack approach, enhancing user experience by enabling precise control over tab management (<a href="#">GitHub Repo</a>)</li></ul>		
<b>BookFellow – Social Media for Bibliophiles</b>	Java, PostgreSQL, Docker, AWS EC2, Prometheus, Grafana, JUnit	Aug 2023
<ul style="list-style-type: none"><li>• <b>Implemented JWT authentication</b> and <b>role-based access control</b> with <b>OAuth2</b> within a <b>PostgreSQL</b> environment, securing user activities and privacy for the BookFellow app, ensuring safe user interactions</li><li>• <b>Engineered PostgreSQL SQL transactions</b> to log and update user activities such as reviews and comments in real-time, enhancing the <b>social timeline's interactivity</b> and <b>user engagement</b></li><li>• <b>Established Prometheus monitoring</b> for HTTP-exposed service metrics and <b>Grafana dashboards</b> for data visualization, enhancing the <b>observability</b> of the BookFellow app on <b>AWS EC2</b> (<a href="#">GitHub Repo</a>)</li></ul>		
<b>Planet - Event Planner App</b>	Next.js, React, MongoDB, Redux, Passport.js, Docker, Jest	Dec 2023
<ul style="list-style-type: none"><li>• <b>Implemented robust user authentication and role-based access control</b> with <b>Passport.js</b>, ensuring secure and efficient management of user sessions and access privileges</li><li>• <b>Enhanced backend performance</b> by implementing <b>indexing</b> and <b>query optimization in MongoDB</b>, leading to streamlined event operations and more efficient user data management (<a href="#">GitHub Repo</a>)</li></ul>		