JUSTINE GEORGE

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EDUCATION

Master of Science (M.S.) in Computer Science Aug 2022 – 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++, Shell scripting
Backend: Spring Framework, Kafka, AWS Lambda, Node.js, Express, OAuth 2
Databases: PostgreSQL, MongoDB, Oracle, Cassandra, AWS S3, Redis
DevOps: Docker, CI/CD pipelines, Monitoring, AWS, GCP, IaC, Terraform
Frontend: Next.js, Astro, React, Redux, Emotion CSS, Tailwind CSS, Jest

EXPERIENCE

Software Engineer Grad Intern (Backend) – Resi Media May 2023 – Aug 2023

- **Developed scalable RESTful APIs** using Spring Boot, enabling streamlined access for over 5,000 churches to the Resi Content Library and processing **over 1 million metadata requests** monthly
- **Created a Terraform-automated GCP alert system** integrated with Slack, resulting in a **40%** reduction in anomaly response time and handling a workload of **over 1000 weekly video uploads**
- **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

- **Engineered over 20 REST API endpoints** using Spring Boot for Oracle's core banking platform, optimizing operations for over 900 global banks
- **Created a Python automation tool** that optimized SQL entry generation, resulting in a **95%** reduction in database update processing time for a key financial system, adopted by multiple teams
- **Optimized app architecture** by removing 50 redundant wrapper components, leading to a **40%** reduction in Docker image size and accelerating deployment speed
- **Achieved a 60% enhancement** in page load efficiency by developing **over 30 responsive UI components** with the Oracle JavaScript Extension Toolkit, demonstrating improved FCP and TTI metrics compared to the legacy system
- **Delivered technical presentations** to stakeholders, driving alignment on architecture decisions and enhancing team collaboration
- 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

- **Boosted store rating to 4.9 stars** and drove an **88%** surge in user adoption, surpassing **1100 installs** and **650 weekly active users** through i18next integration and multilingual extension localization
- **Improved user engagement** by implementing automatic data synchronization across Chrome desktop devices using Firebase SDK and Cloud Firestore, resulting in a **60%** increase in user retention rate
- **Implemented a Redux-based undo/redo feature** with dual-stack architecture, optimizing tab management and improving user accessibility through seamless keyboard shortcuts for efficient error correction and navigation (GitHub Repo)

BookFellow – Social Media for Bibliophiles Java, PostgreSQL, Docker, AWS, Prometheus, Grafana, JUnit Aug 2023

- **Implemented JWT authentication and role-based access control** using OAuth 2 in a PostgreSQL environment, enhancing app security and protecting user data from unauthorized access
- **Maximized user interaction and engagement** by utilizing PostgreSQL transactions to log and update user activities like reviews and comments in real-time, enhancing social timeline experience
- **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

- **Optimized MongoDB queries and indexing**, resulting in **30%** faster backend performance, improving event operations and user data management efficiency
- **Improved error handling in multer middleware** to troubleshoot and resolve file errors, increasing image upload functionality reliability (GitHub Repo)