Dhruv Sood

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WORK EXPERIENCE

Alteryx   **Irvine, CA**
Software Engineer   *Jan 2023 – Aug 2023*
- Facilitated a seamless Node upgrade process, overseeing changes to 150+ tests and updating 20+ dependencies, significantly increasing application speed.
- Configured RESTful API endpoints using Scala, enabling seamless communication between front-end and back-end systems, leading to a 15% reduction in response time.
- Spearheaded the successful integration of Unleash into an existing React application, streamlining feature flag management across cross-functional teams within a 100+ member product engineering organization.
- Actively participated in bi-weekly code reviews, collaborating with multi-team developers to assess over 300 code changes, and maintaining code quality through SonarQube, version control, and Git.

Software Engineering Intern   *Jun 2022 – Sept 2022*
- Developed a proof of concept for a Content Management System for Alteryx AutoML's education mode using TypeScript, simplifying content updating for 50+ technical writers.
- Employed Agile techniques and good software engineering practices to implement internationalization and localization into CMS, serving users from 70+ countries.
- Collaborated with 4 interns across 24 hours to provide insights into data analytics challenges faced by CodePath, a non-profit serving 20,000 underrepresented and low-income students to break into tech.

Teaching + Learning Commons   **San Diego, CA**
Supplemental Instruction Leader   *Mar 2021 – Jun 2022*
- Formulated and led weekly 90-minute discussions to promote a collaborative learning environment for students enrolled in introductory statistics, linear algebra, and discrete mathematics courses
- Designed remote activity-based sessions for 25+ students per week to enhance learning outside of lectures.

Society and Machine Learning Lab   **San Diego, CA**
Undergraduate Student Researcher (advised by Kristen Vaccaro)   *Nov 2020 – Jan 2022*
- Developed and implemented customized Qualtrics blocks using JavaScript to simulate user browser history uploads and survey perceptions on Differential Privacy and Privacy Theater.
- Conducted statistical analyses such as ANCOVA and ANOVA on 1000+ survey results using R and Python.
- Co-authored published paper in ACM Proceedings on Human-Computer Interaction at CSCW 2022 with 160+ downloads.

PROJECTS

Words Alive Mobile App   **San Diego, CA**
Go, PostgreSQL, React Native   *Oct 2020 – May 2021*
- Collaborated with 8 developers, 3 designers, and a project manager to create a mobile application empowering 5,500 students in San Diego through family literacy programs
- Engineered a robust login authentication system in React Native, leveraging API calls to seamlessly integrate with a Firebase database, resulting in a 30% improvement in login success rate and enhanced user confidence.
- Facilitated construction of web application, allowing Words Alive staff and volunteers to view analytics and inventory of 500+ books.

Spanish Quizzing Platform   **New Delhi, India**
Java (Swing, SMTP)   *Jan 2019 - Mar 2020*
- Utilized object-oriented programming principles to design and implement a dynamic quiz generator using Java, allowing Spanish teacher to create quizzes based on a provided vocabulary list automatically.
- Developed robust client-side and server-side GUIs using Java Swing and automated progress report distribution for 30+ students through SMTP using JavaMail API.

EDUCATION

University of California, San Diego   **San Diego, CA**
BS in Mathematics-Computer Science (GPA: 3.741)   *Sept 2019 – Dec 2022*
- Awards: Provost's Honor (3.5+ GPA for 9/10 quarters)

LANGUAGES AND TECHNOLOGIES

Programming Languages: TypeScript, JavaScript, Scala, Python, Java, SQL, PostgreSQL, Go, R, C++

Technologies: React, React Native, Node.js, Express, Docker, Kubernetes, MongoDB, Unix, Agile