

Calvin Lieu

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EXPERIENCE

Software Engineer

Upwork

Sep 2023 – Present

- Streamlined software development process by implementing agile methodologies, resulting in a 20% increase in productivity and a 30% reduction in defects.
- Conceptualized a user-friendly e-commerce website using React and Redux, including an optimized check-out page that increased user clicks and customer purchases by 15%.
- Created a scalable web application using Express.js, utilizing asynchronous and middleware architecture to handle concurrent connections and prevent throttling, resulting in a 50% increase in website traffic
- Collaborated with UX/UI team to design responsive web pages with an emphasis on accessibility, resulting in a 30% increase in user engagement among web users.

Senior Patient Care Assistant

The University of California, San Francisco

Aug 2019 – Mar 2022

- Collaborated with interdisciplinary healthcare teams to develop and implement individualized patient care plans resulting in a 20% decrease in hospital readmission within 6 months.
- Optimized and managed dietary needs of 100+ patients based on nurses' orders; achieved a 95% compliance rate with individualized diet plans through weekly check-ins and dietary education programs.

SKILLS

Languages: JavaScript, Python, Java, SQL, HTML, CSS

Technologies: Node.js, React, Redux, Flask, AWS S3, Docker, Git, Heroku, Mocha, JUnit, SWT, Swing

Databases: PostGres, SQLite, Sequelize, SQLAlchemy

PERSONAL PROJECTS

CalTrack

- Designed and implemented a visually appealing and easy-to-use GUI application using Java's OOP principles, SWT widgets and layouts, resulting in a 70% reduction in user error rate.
- Constructed comprehensive error handling and validation architecture, executed with manual and automated JUnit tests; improved user input accuracy by 60% and decreased user error rate by 40%.

StairBnB

- Developed a full-stack AirBnB replica, leveraging React, Node.js, and PostgreSQL; integrated advanced search filters and a secure payment gateway, resulting in a 35% increase in customer satisfaction and retention rates.
- Programmed an interactive real-time map functionality with customized location-based features, utilizing Google Maps API and JavaScript; generated custom markers to represent listing location, leading to a 60% increase in user engagement and a 20% boost in location-based feature usage.

InstaLock

- Created and launched an online community where gamers can post and exchange gaming highlights; introduced a rating system for users that increased user retention by 25% and boost daily sessions by 40%.
- Led a team of 4 engineers to create a social media platform, utilizing Scrum methodology and Git to manage version control amongst all developers, completing the project within a 1-week time frame.
- Deployed AWS S3 to provide an easy-to-use, fast, and scalable place to store user image data, resulting in a 50% improvement in image upload and retrieval times and a 20% decrease in hosting costs.

Slipper

- Build RESTful backend APIs using Python Flask to maintain compatibility with new technologies emerging, leading to a 40% decrease in development time and a 20% increase in API performance.
- Implemented client-side state management using React hooks to handle the state and lifecycle of React Components and utilized the Redux toolkit to establish a slice of state to maintain application predictability and traceability, improving the overall user experience by 30% and reduction application bugs by 25%.

EDUCATION

App Academy - Immersive 1000+ hour software development course focused on full stack web development.

Aug 2022

San Francisco State University - Coursework towards a Bachelor's in Kinesiology