Jeff Tellew

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Summary

Full-stack developer with over 8 years of object-oriented programming experience between professional work, internships, and academic/personal projects. Knowledgeable about popular back-end technology such as SQL/NoSQL databases and web development with Java, as well as more experimental methods like mass storage on blockchains (see publication below). Over 6 years of front-end experience ranging from vanilla HTML/CSS/JavaScript fundamentals to more modern solutions like React, SCSS, and TypeScript. Strong soft skills including planning and communication help take this knowledge and put it to use efficiently and productively in a team environment.

Education

University of California, Santa Barbara (UCSB) Graduated: June 2021
Bachelor of Science: Computer Science (GPA: 3.41)

Experience

Software Developer - Epic Systems **Madison, WI (July 2021 - November 2022)**

- Performed full-stack object-oriented programming using C# .NET, React, and JavaScript/TypeScript to create fast, scalable, and maintainable software to handle appointment scheduling for over 50% of medical patients in the US
- Rewrote two customer-facing activity screens to increase appointment scheduling efficiency as well as improve long-term maintainability of the code using unit testing with continuous integration
- Contributed to existing codebase by finding and fixing bugs in both current and prior versions of software, tracking issues via Subversion and Git version control software
- Performed 100+ peer code reviews for fellow developers to improve quality of updates and ensure production-ready code
- Collaborated in an Agile environment alongside other roles such as UX designers, system implementation, technical support, and quality assurance testers to ensure consistency and reliability in software

Intern - UC San Diego Division of Biomedical Informatics **San Diego, CA (June 2019 - March 2020)**

- Authored a research publication in JAMIA Open and presented findings at the UCSD DBMI Summer Internship Symposium
- Replaced the UCSD DBMI's outdated email system with a proof-of-concept database using Solidity smart contracts deployed to the Ethereum blockchain to create a transparent, immutable, and efficient process
- Created an easily accessible web app using Java and Spring Boot to allow users to upload their certifications to the database as well as query other users' certifications for verification purposes
- Automated performance testing of database by writing and running bash scripts on AWS virtual machines with Ubuntu Linux

Intern - UC San Diego Simulation Training Center **San Diego, CA (July 2018 - December 2018)**

- Designed and implemented new performance metrics in C++ for an augmented reality training system with Microsoft HoloLens to help med school students learn complex procedures
- Created a recording and replay system with Qt and OpenGL to save motion-tracked movements and allow expert doctors to rewatch procedures in augmented reality and give trainees precise feedback

Technical Skills

- Proficient: Java/C++/C# (8 years), HTML & CSS (6 years)
- Some Experience: TypeScript/JavaScript (1.5 years), Python (1 year), R (1 year), SQL (1 year)
- Software & Tools: Git, SVN, CircleCI, Gradle, Maven, Visual Studio, Android Studio, IntelliJ IDEA

Relevant Coursework

Data Structures and Algorithms, Database Systems, Artificial Intelligence, Machine Learning, Operating Systems, Network Architecture, Distributed Systems, Computer Graphics

Publications

- Jeffrey Tellew, Tsung-Ting Kuo, CertificateChain: decentralized healthcare training certificate management system using blockchain and smart contracts, JAMIA Open, Volume 5, Issue 1, April 2022, ooac019, https://doi.org/10.1093/jamiaopen/ooac019