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Drexel University, B.S. in Electrical Engineering (Minor in Software Engineering) June 2023

Software Engineer

Detail-oriented and innovative entry-level software developer with a strong foundation in electrical engineering and software engineering principles. Proven track record of developing efficient software solutions and enhancing system performance. Passionate about leveraging programming skills to solve complex problems and improve user experiences.

Skills

Software Architecture & Deployment | Test-Driven Development | Debugging | Unit Testing | Project Management | Cross-Functional Team Collaboration | Agile Methodologies | System Reliability | Monitoring & Control | Equipment Performance Tracking | Problem Solving | Troubleshooting | Technical Documentation | Automated Test Development | Git Version Control | Unified Modeling Language (UML)

TECHNICAL: Java, Python, SQL (Postgres), C, GitLab CI/CD, Bash, GitHub, Postman, VS Code, Gradle, JUnit, IntelliJ IDEA, Git, macOS, Windows, Unix, MATLAB, Multisim, LTspice

Work Experience

Gamr Inc. | Software Engineer | *Sheridan, WY* September 2023 - Present

- Developed mobile app features enabling gaming enthusiasts to join, create, and schedule tournaments, optimizing user experience and system efficiency.
- Collaborated with senior engineers to achieve 99.9% uptime, enhancing user experience by 40% through optimized code and system architecture.
- Executed 200+ test cases for tournament functionalities, reducing bugs by 30% and improving release cycle times by 25%.
- Partnered with cross-functional teams to deliver high-quality software, increasing user satisfaction by 15% and adoption rates by 10%.
- Resolved software issues and optimized performance, reducing issue resolution time by 35% and improving system stability by 20%.
- Improved tournament system performance through component refactoring and efficient algorithm implementation, achieving a 20% faster response time and reducing server load by 10%.

PJM Interconnection LLC | Reliability Engineer Intern | *Philadelphia, PA* April 2021 - September 2021

- Scheduled and dispatched generating units per NERC Reliability standards
- Administered power interchange transactions within the Eastern Interconnection
- Monitored and controlled bulk power transmission system loading
- Maintained voltage profiles and operated the Interchange Distribution Calculator (IDC) and Reliability Coordinator Information System (RCIS), achieving a 98% accuracy rate in voltage management and reducing downtime by 10%.

PECO Energy Company | C & M Engineer Intern | *Philadelphia, PA* September 2019 - March 2020

- Scheduled and dispatched generating units per NERC Reliability standards
- Administered power interchange transactions within the Eastern Interconnection
- Monitored and controlled bulk power transmission system loading
- Maintained voltage profiles and operated the Interchange Distribution Calculator (IDC) and Reliability Coordinator Information System (RCIS), achieving a 98% accuracy rate in voltage management and reducing downtime by 10%.

Projects

Artificial Sunlight Window | *Arduino, MIT App Inventor*

- Engineered a software system to regulate light intensity and temperature of an artificial sunlight window, increasing energy efficiency by 25% and improving user comfort ratings by 40%.
- Created a mobile application for remote system control, enhancing user convenience and accessibility by 35%.
- Conducted extensive user testing, achieving a 95% satisfaction rate and reducing reported issues by 20%.

SurveyMaster: Interactive Survey and Test Platform | *Java, Git*

- Developed a console-based survey/test application with diverse question types, increasing assessment flexibility and user engagement by 30%.
- Implemented grading functionality and utilized serialization for efficient data storage, ensuring data integrity and accessibility.
- Achieved 100% test case success rate, validating robust performance and reliability of the system.

CashFlow: Advanced Banking System Design | *Java, Gradle, JUnit, GitLab CI/CD*

- Designed and implemented a comprehensive financial institution management system with checking, savings, and CD account functionalities, leveraging Test Driven Development principles.
- Developed and executed rigorous unit tests for critical components, achieving a flawless 100% pass rate.
- Reduced bug-related support tickets by 35%, contributing to a significant 25% increase in customer retention.
- Automated CI/CD pipeline, slashing deployment time by 50%, optimizing operational efficiency, and enhancing product delivery.