XERXIS PALSETIA

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Summary

Full-stack developer with hands-on experience in API development, modern UI frameworks, ML, and data analysis. Quick to learn new technologies and thrive in fast-paced, high-impact environments. Known for building scalable, efficient solutions with a focus on organization, detail, and teamwork. Passionate about mentorship and knowledge sharing, drawing on leadership experience as a swim instructor, lifeguard, and founder of Coding For Tomorrow.

Education

University of Wisconsin - Madison   **September 2022 - May 2025**

B.S Computer Science, GPA: 3.6 (Dean's List)

Courses: Data Structures, Computer Engineering, Artificial Intelligence, Computer Systems, Computer Graphics, Software Engineering, Mobile Development, Algorithms, Discrete Mathematics.

Organizations: Badger Blockchain (VP of Technology), Wisconsin Racing (Formula SAE).

Technical Skills

Programming Languages: Java, Python, Swift, C, C++, C#, Kotlin, JavaScript, TypeScript, Rust, Bash, HTML/CSS, SQL.

Frameworks & Technologies: iOS, Android, Firebase, Django, Node.js, Flask, React, React Native, Spring Boot, Git, MySql.

Tools & Platforms: GitHub, Docker, Postman, VS Code, Xcode, Android Studio, AWS, GCP, Azure, Kubernetes.

Experience

Engineering Intern   **June 2023 – September 2023**

Cequence Security

- Implemented the Discovery Feature, enhancing resource allocation and utilization and increased system efficiency by 30%, helping users more easily identify cybersecurity risks.
- Developed and deployed a high-performance API module using Spring Boot and Kotlin, which optimized resource parameterization and integration.
- Actively participated in the scrum ceremonies including daily standups, sprint planning, and retrospectives.
- Achieved 80% code coverage for newly developed code, ensuring high quality and reducing production issues.

Founder/Instructor   **June 2020 – May 2022**

Coding For Tomorrow

- Founded an organization aimed at teaching younger students foundational coding skills in a fun and engaging way.
- Developed and structured a comprehensive curriculum that introduced programming concepts through Scratch, Python, and Java, tailored to different age groups and skill levels.
- Managed and taught multiple classes while assessing student performance through evaluations and hands-on projects, providing feedback to enhance their understanding and growth in coding.

Projects

S&P 500 Prediction Using Markov Chains: github.com/xpalsetia/S-PMarkovChains/tree/main

- Predicts daily S&P 500 changes using customizable k-order Markov Chains, allowing users to input recent trends and receives next-day change probabilities.
- Interactive Flask web app that processes historical CSV data using numpy and pandas, builds transition matrices, and outputs predictions with associated probabilities.

Premier League Match Prediction: github.com/xpalsetia/PremPredictor/tree/main

- Predicts EPL match outcomes using team performance metrics like goals, possession, and form, applying a logistic function to estimate win probabilities.
- Java based app that reads data from a CSV file and calculates team strengths based on adjustable weighted metrics for flexible experimentation. Designed to enable future enhancements, including ML and deeper analytics.