Preston Petersen

Seattle, WA | (206) 972-1900 | prestonwpetersen@outlook.com |
www.linkedin.com/in/prestonwpetersen | https://github.com/peterspr

SOFTWARE DEVELOPMENT EXPERIENCE

Technical Consultant, WellSpring Family Store   December, 2024 - January 2025
Order Management System | Javascript, Formstack, Salesforce
- Redesigned the order management system to replace a booking calendar with a fixed weekly pickup schedule, reducing lead times from months to one week and decreasing abandoned orders.
- Collaborated with a technical team member and stakeholders to implement a scalable solution that aligned with organizational needs, improving efficiency and user experience.

Software Engineering Intern, Recon Dynamics   Summer, 2019
Driver behavior analysis | Python
- Worked under Senior Software Engineers to generate driver behavior reports from sensor data.
- Used existing APIs to collect measurements, correlate trips, and produce filterable evaluations.
- Python framework is used to produce driving records and flags tailored to customer criteria.

PROJECTS

Earnings Call Stock Predictor, Personal Project   Winter 2024 - On Going
Python | Machine Learning/NLP Project
- Fine-tuning a BERT model to classify and analyze earnings call transcripts for stock price prediction.
- Built an NLP pipeline processing 63,000+ transcripts with optimized inference on AWS EC2 and S3.
- Extracting sentiment, uncertainty, and complexity features to inform stock movement forecasting.
- In Progress: Building a CNN-LSTM hybrid from scratch using PyTorch or TensorFlow.

Performant Side Channel Analysis Toolkit, Senior Capstone   Sept 2022- June 2023
Python | numpy, HDF5, SQLite, Parallelism, Unit testing, Side Channel Analysis
- Developed a high-performance solution for hardware security research, specifically focused on Side Channel Analysis in collaboration with 3 other students.
- Effectively incorporated Agile methodologies into our team's software development life cycle.
- Utilized statistical analysis, parallel processing, and efficient file handling techniques to achieve a significant performance increase, surpassing the costly industry standard by approximately 69%.

ADDITIONAL EXPERIENCE

Consultant, Peak Consulting and Analytics   February 2024 - Present
- Performed forensic financial analysis by identifying irregularities, optimizing data extraction and validation processes, and enhancing data accuracy to support business valuation efforts.
- Utilized Python and technical expertise to automate workflows, and increase efficiency.

EDUCATION

Bachelor of Science, Computer Science, Oregon State University, Corvallis, OR   Summer, 2023
Honor Roll: Spring 2022 through Summer 2023
Relevant Coursework: Software Engineering, Operating Systems, Data Structures, Algorithms, Security

TECHNICAL SKILLS

- Languages: Python, C/C++, Javascript, TypeScript, SQL, HTML, CSS
- Technologies: Node.Js, Express, REACT, OAuth, AWS, Google Cloud Platform, Azure, Docker, No SQL Databases, Linux, Windows
- Other: Agile Methodologies, Git, CI/CD, TDD, Open Source Software, AI/ML