Kevin Lin

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Education

Purdue University   **08/2020 - 05/2024**

Elmore Family School of Electrical and Computer Engineering   West Lafayette, IN

- Bachelor of Science in Computer Engineering   Cumulative GPA: 3.50/4.0

Courses: Data Structures, OOP in C++/Java, Software Engineering, Computer Security, Operating Systems, Digital Systems, Microprocessor Systems and Interfacing, Python for Data Science, Discrete Math

Professional Experience

Computer Engineer, Intern   **06/2023 – 08/2023**

U.S Navy, Naval Sea Systems Command   Philadelphia, PA

- Developed MATLAB script with intuitive GUI to detect AC generator trips from frequency data
- Contributed to hardware and software of RX3i PLC for auxiliary propulsion system
    - o Transitioned and debugged PLC code to adhere to LHA ship specifications for software integration
    - o Wired and tested the system's rack for hardware implementation and vibration sensor components
- Assisted in synchronization efforts for two AC power generators using DECS

Undergraduate Advance C Teaching Assistance   **08/2022 – 12/2022**

Purdue   West Lafayette, IN

- Mentored students on programming concepts such as data types, recursion, data structure, memory management, linked list, and trees
- Helped improve students' understanding of tools such as Git, GDB, Valgrind, Unix/Linux

Data Scientist, Programmer   **08/2021 – 12/2021**

Caterpillar   West Lafayette, IN

- Developed machine learning algorithm using Pandas, PyTorch, NumPy on Jupyter to efficiently sort over 1 million customer invoices, resulting in 25% faster workflow
- Led the team with my research on implementing Chi-Square Test, Crammer's V Coefficient, and Jaccard's Index for feature/variable selection

Software Projects

NPM Clone (GitHub)   **01/2023 – 05/2023**

- Developed a full stack package manager and command line interface to automate the process of installing, upgrading, configuring, analyzing, and removing packages using Restful API.
- Designed frontend web application with Typescript, backend with C#, SQL, and Google Cloud Platform
- Implemented a CI/CD pipeline using GitHub Actions to streamline the build and deployment process
- Implemented and maintained suites of unit testing using .NET's XUnit framework

Full Stack Social Media Application (GitHub)   **10/2022 – 12/2022**

- Designed a full-stack social media application for posting memorable experiences with user authentication
- Developed using Mern stack framework: MongoDB, ExpressJS, React, NodeJS, Materials UI

Engineering Projects in Community Service (EPICS)   **01/2022 – 05/2022**

- Prototyped children's water table toy that controls speed/intensity of water waves using Arduino with Bluetooth

Skills

C#/.NET, XUnit | C/C++, Embedded C | JavaScript/React, Node/Express | Python | Git | PostgreSQL | MongoDB | MATLAB/Simulink | Assembly | Verilog | Unix/Linux