

# 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

## Skills

- Frontend | Backend | OOP | CI/CD | Unit testing | Computer Network | Cyber Security | Data Science | Embedded Systems | Microcontroller Programming | Operating Systems
- C#/.NET, XUnit | C/C++, Embedded C | JavaScript/React, Node/Express | Python | Git | PostgreSQL | MongoDB | MATLAB/Simulink | Assembly | Verilog | Unix/Linux

## 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
  - Transitioned and debugged PLC code to adhere to LHA ship specifications for software integration
  - 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

### 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

## Other

### Advance C Teacher's Assistance

08/2022 – 12/2022

- Helped with concepts (recursion, data structures, memory management) and tools (Git, GDB, Valgrind, Unix/Linux)

### 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

