

# Peter Kang

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## EDUCATION

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### Purdue University

West Lafayette, IN

*Bachelor of Science in Computer Science*

*Expected May 2025*

- Data Structures & Algorithms, Operating Systems, Software Testing, Object Oriented Programming
- GPA: 3.98

## EXPERIENCE

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### Bloomberg | *New Grad Software Engineer*

Sept. 2025

- Incoming Fall 2025

### Siemens Digital Industries Software | *Software Engineering Intern*

May 2024 – Aug 2024

- Developed a Python script to automate the creation of DFM commands, processing 10+ files to add appropriate cases, data structures, and functions, saving the EDA department 2-3 hours of manual work per usage
- Designed and developed a C++ application with an interactive GUI using Qt and Git that allows users to visualize and interact with their project's git development history, performing 30% faster than the previous tool and saving roughly \$1000 per team in licensing during the department's transition from CVS to Git
- Refactored and enhanced the machine learning utilities library for the Python version shipped in their product, leveraging Dash and Plotly to develop an interactive interface for data manipulation and visualization

### Purdue University | *Undergraduate Teaching Assistant*

Aug 2023 – Present

- Conducted lab sessions for Java and Object Oriented Programming, Programming in C, and Systems Programming to foster the understanding of 100+ students through live coding demonstrations and examples
- Actively collaborated in meetings with professors and graduate teaching assistants to highlight issues and solutions to continuously improve the quality of the course

### Hello World Hackathon | *Dev. Team Organizer*

Feb 2023 – Dec 2023

- Cooperated with a team of 6 to develop the website ([hwhack2023.com](http://hwhack2023.com)) for Purdue's Hello World Hackathon to display the important information to the 1000+ incoming freshman eligible to attend the hackathon
- Suggested and designed new features and designs to make the website more coherent to the retro theme crafted by the Design Team

## PROJECTS

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### Social Media | *React Native, Express, MongoDB, NodeJS, Google FireBase*

Jan 2024 – May 2024

- Developed a full-stack mobile application to allow users to answer a daily prompt within their groups through photos to promote the development of social relationships
- Main functionalities include account creation/authentication, capturing photos and sharing, interactions with posts such as commenting and liking, social network management, prompt generation, and real time updates
- Worked in a software engineering team of 5 deploying agile development principles and thorough communication

### MyShell | *C/C++, Lex, Yacc*

Jan 2024 – May 2024

- Programmed a shell interpreter which combines behaviors from common shells including bash and csh
- Features include environment variable and wildcard expansion, background processes and forking/piping, signal handling and zombie processes, and subshells
- Utilized Lex and Yacc to develop the grammar of the shell through scanning and parsing to generate tokens

### Tune In | *Python, Django, React, MySQL, Docker*

June 2023 – Oct 2023

- Developed a full-stack web application that allows users to create and host rooms for listening to music together and send messages to the chatting room in real-time.
- Integrated the Spotify API into the application, allowing users to search for and access a vast library of songs and playlists directly within the platform, queue specific tracks, and manipulate the music playback

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, Assembly x86-64, SQL

**Frameworks/Run:** React, Node.js, Django, Qt, Express.js, Material-UI, Bootstrap

**Developer Tools:** Git/Github, Docker, Postman, VScode, IntelliJ, MongoDB, MySQL, Linux, QtCreator, Jira