

Kevin P Chen

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EDUCATION

New York University Tandon School of Engineering
Bachelor of Science in Computer Science

Brooklyn, New York
Class of 2027

- **Cumulative GPA:** 3.82/4.00 | **Activities and Honors:** Dean's List, Completed 2024 LeetCode Bootcamp

EXPERIENCE

Trip.com

Backend Software Engineer Intern

Shanghai, China
July 2024- August 2024

- Contributed to the development of an internal grammar and style checking tool, improving the communication efficiency of over 1,000 staff members by 35%.
- Assisted in leading a team of developers in debugging and enhancing the tool's algorithms, resulting in a 50% reduction in error rates and a 20% increase in processing speed.
- Participated in regular team meetings and code reviews, fostering a collaborative environment that ensured high-quality code and adherence to best practices.
- Assisted in delivering detailed documentation and training sessions to internal staff, enabling effective utilization and maintenance of the grammar checking tool.

Canadian Solar

IT engineer Intern

Dallas, Texas
June 2024- July 2024

- Collaborated in the architecture and deployment of Manufacturing Execution Systems (MES) for over 50 factory machines, resulting in a 30% increase in production efficiency and a 25% reduction in system downtime.
- Contributed to the development and implementation of machine learning algorithms that improved the detection rate of defective solar panels by 40%, enhancing quality control and reducing waste by 20%.
- Assisted in coordinating a cross-functional team of engineers and factory personnel to troubleshoot and resolve technical issues, ensuring seamless integration and operation of MES and machine learning systems.
- Provided training and technical support to factory personnel on the use and maintenance of MES and machine learning systems, enhancing overall technical proficiency within the team.

Thermo Fisher Scientific

Backend Software Engineer Intern

Shanghai, China
December 2022 - January 2023

- Implemented a Python script to automate the generation of SQL code based on spreadsheet columns, reducing the average amount of handwritten stored procedure code by approximately 25% and saving over 100 man-hours per month.
- Participated in a 5-member development team for the successful redesign of a legacy system, contributing to a 30% improvement in efficiency and a 20% increase in system reliability.
- Assisted in troubleshooting and resolving software bugs and performance issues, ensuring smooth and reliable system operation.
- Created detailed technical documentation and user manuals to support ongoing maintenance and future development efforts.
- Developed and optimized database queries to enhance data retrieval performance, resulting in a 20% reduction in query execution time.

PROJECTS

AlphaDoMi

Inventor and Creator

Shanghai, China
September 2019 - Present

- Created a device that detects a player's intonation and rhythm with 99% accuracy by implementing a Digital Signal Processing (DSP) noise-filtered string frequency feature recognition algorithm.
- Distributed 20 AlphaDoMi models to the local autistic children organization to use which improved intonation and rhythm of Shanghai Autistic Youth Orchestra by 60%.
- Published research paper that documented AlphaDoMi which was accepted by the 4th International Conference on Computing and Data Science.(CONF-CDS 2022)(Paper ID: CDS_0645)

IntroBot (Developed under NYU Tandon's engineering course)

Head of Production and Developer

Brooklyn, New York
September 2023 - December 2023

- Created a device that serves as a conversational companion robot leveraging ChatGPT API, designed with emotion-displaying capabilities to assist individuals with social anxiety by simulating realistic social interactions.
- Implemented facial detection using PiCamera2 and OpenCV, employing Haar Cascades for efficient facial bounding box creation due to Raspberry Pi's computational limitations.
- Integrated PyAudio for audio input, setting up a system to record and save audio as .wav files, later transcribing them into text using the Speech Recognition library.
- Employed Matplotlib for displaying emotion-corresponding faces (happy, sad, neutral) along with the chatbot responses, enhancing user interaction experience.

HONORS

Platinum Division in USA Coding Olympiad (USACO)

Platinum Division

Online
February 2021 - Present

- Promoted to Platinum Division with a score of 1000/1000.

SKILLS

- **Programming Languages:** C++, C, Java, Python, PHP, SQL, HTML, CSS, JavaScript, L^AT_EX.
- **Frameworks:** React.js, Vue.js, Node.js.
- **Fluent Languages:** English, Mandarin.