

Kevin Chen

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EDUCATION

University of Pennsylvania - School of Engineering & Applied Science, Philadelphia, PA *Aug 2019 – May 2023*

Bachelor of Science in Engineering, Computer Science | *Concentration:* Software Foundations | *Minor:* Statistics

Cumulative GPA: 3.96/4.00

Selected Coursework: Data Structures & Algorithms, Software Design & Engineering, Programming Languages & Techniques, Big Data Analytics, Mathematical Foundations of Computer Science, Python Programming, Probability

University of Minnesota Talented Youth Math Program, Minneapolis, MN

Sept 2015 – May 2018

Relevant Coursework: Calculus I, II, & III

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C#, JavaScript/TypeScript, SQL, OCaml
- **Tools and Libraries:** Angular, RxJS, Express, Node.js, Android Studio, .NET, Azure DevOps Server, Django, SQL Server, MongoDB, Firebase, AWS, Apache Spark, Pandas, scikit-learn, JUnit, Git, Power BI
- **Other:** Agile SDLC, Software Design Patterns, LaTeX, Microsoft Suite (Excel, PowerPoint, Word)

EXPERIENCE

WEX Inc., BI Development Intern – Software | Minneapolis, MN

June 2020 – Present

- Work (full-time summer/part-time school yr.) on web portals in an Agile setting as part of a business intelligence focused software development team for the WEX Health Cloud platform, used by over 17 million consumers
- Use C# to fix bugs, improve performance, and build the backend for new features in the ASP.NET Web API
- Build features like admin portal controls for page access, layout, and design in their employers' dashboard
- Use Angular to embed Power BI visuals and create proof of concepts to drive development of a new dashboard
- Onboard and train new interns by walking them through the codebase and assisting them with development

Penn Electric Racing, Software Engineer | Philadelphia, PA

Sept 2019 – May 2020

- Used Gazebo and Python to implement and simulate cone recognition for autonomous driving
- Built a Vue.js GUI that provides an easy to use interface for displaying graphs and sensor data from the car

Penn Aerospace Club, Software Engineer | Philadelphia, PA

Sept 2019 – May 2020

- Developed a “mission control” web application that tracks and stores data on the position, path, speed, and time for the high-altitude balloon using Node.js

PROJECTS

OurStatus

May 2020 – Present

- Create a cross-platform (Web, iOS, Android) social media app connected by Firebase to promote productivity
- Use RxJS observables and the AngularFire library to create an asynchronous and event-based Angular web app

Penn Lost and Found

Feb 2020 – May 2020

- Developed an app where users can post lost/found items on campus and communicate with other users
- Built a distributed software system with a mobile app using Android, a web administrator app using HTML and JavaScript, and a server-side application using Node Express and MongoDB
- Features include login, messaging, feed for postings, account monitoring for admin, warnings/ban, and more

Stock Trading Bot

Dec 2019 – Jan 2020

- Wrote a bot in Python to trade stocks using Bollinger Bands, Relative Strength Index, and linear regression
- Automated trades and monitored my account through HTTP requests and JSON objects using Alpaca API
- Collected and stored 10,000+ data points daily in a SQL database for testing and algorithm refinement

Dungeon Escape

Nov 2019 – Dec 2019

- Built a Java Swing game where a player collects keys and escapes monsters in a randomly generated maze
- Implemented torchlight effect, collisions, smooth movement, high scores, automated movement, and more

ADDITIONAL ACTIVITIES

- Moelis Access Science Volunteer Computer Science Instructor

Sept 2019 – Present