

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, Big Data Analytics, Programming Languages & Techniques, Mathematical Foundations of Computer Science, Python Programming, Probability

University of Minnesota Talented Youth Math Program | Minneapolis, MN *Sept 2015 – May 2018*

- *Selected Coursework:* Calculus I, II, & III

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C#, JavaScript/TypeScript, SQL, HTML/CSS, OCaml
- **Tools and Libraries:** Angular, RxJS, Express, Node.js, Redux, Android Studio, .NET, Django, SQL Server, Firebase, MongoDB, AWS, Apache Spark, Pandas, scikit-learn, JUnit, Git, Azure DevOps Server, Azure AD, 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*

- Build (full-time summer/part-time school yr.) distributed, multi-tiered web applications in an Agile setting as part of a business intelligence software development team for the WEX Health Cloud platform, used by 17 million consumers
- Use C# to fix bugs, improve performance, and build the backend for new features in the ASP.NET Web API
- Develop, demo, and maintain code for admin portal controls that change employer dashboard access, layout, and style
- Drive early-stage development of a new dashboard by building POCs, writing client-side Angular code to embed Power BI and server-side C# code to generate embed tokens, and designing system architecture with other engineers
- Onboard and train new interns by guiding 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 a cone recognition simulator for autonomous driving
- Built a Vue.js GUI that provides an easy-to-use interface for displaying graphs and sensor data from the vehicle

Penn Aerospace Club, Software Engineer | Philadelphia, PA *Sept 2019 – May 2020*

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

PROJECTS

OurStatus *May 2020 – Present*

- Build a cross-platform (Web/Mobile/Firebase) productivity app that combines social media and task management
- Use RxJS and AngularFire libraries to create an asynchronous and event-based Angular web app hosted with AWS S3
- Implemented cookie-based authentication, session state with NgRx redux, and friend recommendation with heuristics

Penn Lost and Found *Feb 2020 – May 2020*

- Developed an app where users can post lost or found items on campus and communicate with other users
- Built a complex software system comprised of a mobile app made with Java and Android Studio, a web administrator app made with HTML and JavaScript, and a server-side application made with Node.js, Express, and MongoDB
- Implemented user accounts, live messaging, feeds for postings, admin account monitoring, warnings/ban, and more

Stock Trading Bot *Dec 2019 – Jan 2020*

- Wrote an algorithmic trading bot in Python that uses Bollinger Bands, Relative Strength Index, and linear regression
- Automated trades and monitored my account status by using HTTP requests and JSON objects with Alpaca API
- Collected and stored over 10,000 data points daily in a SQL database for future 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 maze randomly generated using DFS
- Implemented torchlight effect, collision logic, smooth movement, saved high scores, automated movement, and more

ADDITIONAL ACTIVITIES

Moelis Access Science, Volunteer Computer Science Instructor | Philadelphia, PA *Sept 2019 – Present*