

# Kevin Chen

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## EDUCATION

**University of Pennsylvania - School of Engineering & Applied Science** | Philadelphia, PA **May 2023**  
Bachelor of Science in Engineering, Computer Science | *Concentration:* Software Foundations | *Minor:* Statistics  
Cumulative GPA: 3.96/4.00

- *Relevant Coursework:* Data Structures & Algorithms, Software Engineering, Mathematical Foundations of Computer Science, Big Data Analytics, Probability, Scalable & Cloud Computing, Computer Systems, Statistical Inference

**University of Minnesota Talented Youth Math Program** | Minneapolis, MN **May 2018**  
• *Relevant Coursework:* Calculus I, II, & III during the first three years of high school

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C#, C, JavaScript, TypeScript, SQL, HTML, CSS
- **Tools and Libraries:** Angular, RxJS, Express, Node.js, Redux, Android Studio, .NET, Django, SQL Server, Firebase, MongoDB, Apache Spark, AWS, pandas, scikit-learn, JUnit, Git, Azure DevOps Server
- **Additional:** Agile SDLC, Software Design Patterns, LaTeX

## EXPERIENCE

**Penn Labs, Backend Engineer** | Philadelphia, PA **Sept 2020 – Present**  
• Develop technology to connect 25k+ students with resources and data to improve academic and campus life at Penn  
• Build backend for [OHQ](#), an online office hours system serving 2,700+ active users, with Django REST framework

**WEX Inc., Software Engineering Intern** | Minneapolis, MN **June 2020 – Present**  
• Build (full-time summer/part-time school yr.) secure, distributed, multi-tiered web apps and analytics dashboards for WEX Health Cloud platform, used by 17M+, in Agile setting as part of 15-person team of developers, QAs, and BAs  
• Drive development of new healthcare data dashboards by writing client-side Angular code and server-side C# code

- Master new technologies, build proofs of concept, and design system architecture with other engineers
- Write efficient ASP.NET code to calculate complex metrics, populate frontend filters, and generate tokens

  
• Create XML-based designer with hierarchical override in admin portal to control layout of employers' dashboards  
• Train new interns by reviewing codebase, outlining schema of relational databases, and describing system architecture

**Penn Electric Racing, Software Engineer** | Philadelphia, PA **Sept 2019 – May 2020**  
• Used Gazebo and Python to create simulation for cone recognition during autonomous driving  
• Built Vue.js GUI that provides easy-to-use and customizable interface for displaying graphs and sensor data from car

**Penn Aerospace Club, Software Engineer** | Philadelphia, PA **Sept 2019 – May 2020**  
• Developed “mission control” web application and REST API web service using Node.js and Express for tracking and storing data on position, path, and speed over time for high-altitude balloon flights

## PROJECTS

**OurStatus** **May 2020 – Aug 2020**  
• Built cross-platform (Web/Mobile/Firebase) productivity app that combines social media and task management  
• Used RxJS and AngularFire libraries to create asynchronous and event-based Angular [web app](#) hosted with AWS S3  
• Designed NoSQL database structure and cloud functions to run serverless backend code managing data consistency  
• Implemented cookie-based authentication, session state with NgRx redux, and friend recommendation with heuristics

**Penn Lost & Found** **Feb 2020 – May 2020**  
• Developed app where users can post lost or found items on campus and communicate with other users in real-time  
• Built complex software system comprised of mobile app made with Java and Android Studio, web administrator app made with HTML and JavaScript, and 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

**Algorithmic Trading Bot** **Dec 2019 – Jan 2020**  
• Wrote algorithmic trading bot in Python/pandas using Bollinger Bands, Relative Strength Index, and linear regression  
• Automated trades and monitored account status by using HTTP requests and JSON objects with Alpaca API  
• Collected and stored over 10,000 data points daily in SQL database for future testing and algorithm refinement

## ADDITIONAL ACTIVITIES

**Moelis Access Science, Volunteer Computer Science Instructor** | Philadelphia, PA **Sept 2019 – May 2020**