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 CS, Big Data Analytics, Probability, Scalable & Cloud Computing (F20), Computer Systems (F20), Statistical Inference (F20)

University of Minnesota Talented Youth Math Program | Minneapolis, MN   *May 2018*
- *Relevant 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, Apache Spark, pandas, scikit-learn, JUnit, Git, Azure DevOps Server, Azure AD, AWS, Power BI
- **Additional**: 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 apps for WEX Health Cloud platform, used by 17M+, in Agile setting as part of business intelligence software engineering team of 15 Devs/QAs/Analysts
- Use C# to fix bugs, improve performance, and build backend for new features in RESTful 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 new dashboard by building POCs, writing client-side Angular code to embed Power BI and server-side C# code to generate embed tokens in API, and designing system architecture with other engineers
- Onboard and train new interns by reviewing codebase, describing system architecture, and assisting with development

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 API service using Node.js and Express that tracks and stores 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
- Implemented cookie-based authentication, session state with NgRx redux, and friend recommendation with heuristics

Penn Lost and 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

Stock 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

Dungeon Escape   *Nov 2019 – Dec 2019*
- Built Java Swing game where player collects keys and escapes monsters in randomly generated maze created with 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*