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
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 - Twin Cities (High School Program), *Minneapolis, MN* *Sept 2015 – May 2018*
University of Minnesota Talented Youth Math Program (UMTYMP)
Relevant Coursework: Calculus I, II, & III

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, C#, JavaScript/TypeScript, SQL
- **Tools and Libraries**: Git, Android Studio, Angular, Node.js, .NET, Azure DevOps Server, Flask, Django, Microsoft SQL Server, MongoDB, Firebase, Apache Spark, Pandas, scikit-learn, JUnit, 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*

- Developing software full-time with software engineers in an Agile setting as part of a business intelligence focused software development team
- Using C#/.NET and Angular to fix bugs and implement new features for the data API and frontend of analytics dashboards on the employer and admin web portals for the WEX Health Cloud healthcare account platform, used by over 17 million consumers
- Using Microsoft SQL Server to manage and edit SQL stored procedures run by the data API service

Penn Electric Racing, *Software Engineer* | Philadelphia, PA *Sept 2019 – May 2020*

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

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

- Develop 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*

- Creating a cross-platform (Web/Angular, iOS, Android) social media app connected using Firebase, focusing on promoting productivity

Penn Lost and Found *Feb 2020 – May 2020*

- Develop an app where users can post lost/found items on campus and communicate with other users
- Build 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*