

# Will Koenig

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## PROFESSIONAL BACKGROUND

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A full stack **Python** and **JavaScript** engineer, with experience in both front-end and back-end development. Created dynamic applications with **React Native** and developed APIs using **Node**. I am passionate about delivering high-quality projects that bring real value to their end users. I've worked in team environments following **Agile** development methodologies.

## SKILLS

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**Languages:** Python, JavaScript, TypeScript, Java, C, C++, SQL, HTML, CSS, Git

**Frameworks:** React, React Native, Express, Node, NumPy, Pandas, Jupyter, PyTorch, sklearn, matplotlib

**Databases:** MongoDB, Mongoose, MySQL

**Project Management Tools:** Jira, Asana, GitHub, Bitbucket

## RELEVANT EXPERIENCE

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### Sparks Biomechanics Research Lab

Newark, DE

*Mobile Development Engineer*

May 2022 – November 2022

- Lead developer of a Bluetooth device controller application that primarily uses **JavaScript (React Native)** and **C++** for some of the research devices
- Managed the work of five engineers using **SCRUM, JIRA, and GitHub**
- Cultivated a culture of **Agile** development and continuous improvement via inspect and adapt ceremonies: daily standups, sprint reviews, retrospectives
- Led weekly client-facing meetings to generate enhancement requirements
- Delivered an application that streamlined testing and data collection resulting in a 300% increase in plants tested per session

### Viinko

Boston, MA

*Software Engineer Intern – Remote*

June 2021 – August 2021

- Developed a **Chrome extension** in **JavaScript** and **HTML/CSS** used daily by approximately ~2000 students as a core element of their education software
- Created an interface to connect Google Classroom and Viinko calendar to reduced the time necessary to enter new assignments by 65% and increased student engagement with the platform

## EDUCATION

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### Stevens Institute of Technology

Hoboken, NJ

*Masters of Science in Machine Learning*

Expected December 2024

### University of Delaware, College of Engineering

Newark, DE

*Bachelor of Science in Computer Science, Concentrated in AI & ML, minor in CyberSecurity*

May 2022

*Awards and Activities:* Dean's List, Business Basics for Engineers (Founder & President)

### Business Basics for Engineers

Newark, DE

*Founder, President*

November 2019 – September 2021

- Founded and managed an on-campus Registered Student Organization with a mission to help engineering students develop awareness of business fundamentals
- Conducted student outreach events to recruit 52 new members in our first semester
- Recruited industry speakers and facilitated five events followed by roundtable discussions

## PROJECTS

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**Algorithm Visualizer** - [algovisualizer.willkoenig.info](http://algovisualizer.willkoenig.info)

- Interactive web app to demonstrate the comparisons made by different popular algorithms

**Authentication Demo** - <https://github.com/willko814/note-taking-app>

- A full stack application leveraging MongoDB, Express, React, and Node to handle authentication