

# Christopher Seiler

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## Education

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### Carnegie Mellon University

*B.S. in Computer Science; expected graduation May 2022*

Pittsburgh, PA

QPA 4.00

## Work Experience

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### Philips Sleep and Respiratory Care

*Software Engineering Intern*

Murrysville, PA

May 2019 – Aug 2019

- Designed full-stack testing infrastructure around Care Orchestrator (CO), a health application with tens of thousands of users globally, retroactively catching all the defects discovered by hand in a previous release
- Analyzed and reconfigured slow component test suites in two Java microservices in the CO backend, reducing total runtime by 50%

### Philadelphia Scientific LLC

*Software Development Intern*

Montgomeryville, PA

Jun 2018 – Aug 2018

- Initiated development of an Android app to collect activity data on forklift trucks and determine their utilization
- Developed an end-to-end framework which processes the app's reports from thousands of North American distribution sites, including a REST endpoint, an AWS Lambda backend in Python, and a MySQL database

## Projects

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### ForeSight ([Devpost](#))

Sep 2019

- Implemented visual object detection with OpenCV and TensorFlow in a haptic feedback system to assist visually impaired individuals
- Placed in the top 10 out of 251 submissions for PennApps XX

### KeyCore ([Devpost](#) | [GitHub](#))

Feb 2019

- Designed and implemented the Microsoft Azure back-end system supporting biometric, keystroke-based user authentication system for Carnegie Mellon hackathon TartanHacks 2019
- Received the *Best Entrepreneurial Hack* award from Project Olympus among 74 submissions

## Awards and Certifications

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### FBLA National First Place, Mobile Application Development

Jul 2018

Judged for development, execution, and presentation of a school library app over 10 months

### Neo4j Certified Professional

Jun 2019

Certified in the technical and administrative knowledge required for running a Neo4j graph database

## Organizations

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### FIRST Robotics Competition (FRC) Team 5404

*Lead Programmer*

Lansdale, PA

September 2016 – April 2018

- Guided five-person group in the development and testing of code for robot control system, leading the team to the FIRST Championship 2018 in Detroit
- Used GRIP to perform vision processing and target recognition for 90% accuracy in autonomous tasks

## Skills

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Programming Languages

**Proficient:** Java, Python; **Basic:** C#, C, C++, SML, MATLAB

Frameworks and Technologies

Git, Spring, OpenCV, TensorFlow, MongoDB, MySQL, Neo4j

Platforms

AWS, Microsoft Azure, Google Cloud