

# Sarah Kunkel

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## EDUCATION

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### University of Michigan - Ann Arbor

2017-2021

College of Literature, Science, and the Arts, Honors College

Ann Arbor

B.S., Computer Science

Minor in Economics

Cumulative GPA: 3.68 / 4.00

- **Relevant Coursework:** Discrete Mathematics, Data Structures and Algorithms, Statistics, Microeconomics, Macroeconomics, Labor Economics
- **Current Coursework:** Computer Security, Computer Organization, Microeconomic Theory

## EXPERIENCE

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### Cottonhat

June 2019 to August 2019

Software Development Intern

Lisbon, Portugal

- Added Node.js API endpoints to surface user data analytics to a front-end client
- Utilized Mongoose aggregation pipelines in order to manipulate, clean, and stream user data
- Developed a panel, using React, which organized and displayed website analytics to allow clients to visualize user web traffic

### BlueLab for Ecoworks

August 2018 to Current

Student Software Developer

Ann Arbor, MI

- Utilized ReactNative components to organize information for app users to practice and review lessons
- Added Settings page, using Redux, to maintain variables throughout app usage

Finance Chair

- Handled team finances through applying for grants and ensuring proper funding is received for development

### Vanderbilt Institute Software Integrated Systems

June 2018 to August 2018

Research Intern

Nashville, TN

- Researched the attack vectors through which Powder Bed Fusion Additive Manufacturing systems can be compromised
- Developed defect detection software using OpenCV library to prevent side-channel attacks during manufacturing

## ADDITIONAL

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- **Technical Languages:** C++, Python, HTML, CSS
- **Technologies / Frameworks:** OpenCV, Bash, Git, Latex, ReactNative