

# Sean Coughlin

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## Education

### University of Illinois at Urbana-Champaign

Expected, Dec 2021

- Bachelor of Science in Computer Science, Minor in Economics GPA: 3.85 / 4.00
- Select Coursework: Algorithms, Artificial Intelligence, Computational Photography, Data Structures, Databases, Machine Learning, Statistics, Systems Programming, Web Programming, User Interface Design

## Work Experience

### Discover Financial Services - Business Technology Intern

June 2021 - Aug 2021

- Engineered a comprehensive API testing, documentation, and demonstration tool for product owners using Angular, Spring Boot, and Swagger
- Delivered code across the digital payments ecosystem that resolved 50 code quality issues and updated APIs to support new software versions
- Worked on Scrum and Kanban based Agile teams to formulate user stories aligning to behavior driven development and fulfilling business requirements

### Zebra Technologies - Quality Assurance Intern

May 2020 - Aug 2020

- Drove a 57% reduction in testing time through expanding automated functional tests and accelerated the IT department's transformation to an Agile environment by shifting testing to earlier in the development cycle
- Streamlined the IT quality assurance team's on boarding process by building comprehensive documentation explaining team tools and best practices

## Extracurricular Activities

### University of Illinois - Teaching Assistant

July 2021 - Present

- Led a class of 25 freshmen in computer science to mentor them with resumes, elevator pitches, coding interviews, course planning, academic and career paths

### Engineering Ambassadors - Treasurer

Jan 2019 - Present

- Managed a cash reserve of over \$10,000 and raised new money by working with corporate sponsors and organizing fundraising efforts
- Designed outreach programs on behalf of the University of Illinois for elementary and middle schools to encourage youth interest in STEM fields and excite future generations of engineers

### Juni Learning - Computer Science Instructor

Oct 2020 - May 2021

- Educated middle and high school students in programming best practices through teaching Java, Python, and computer science fundamentals

## Project Highlights

- **Swimming Stroke Detector** - Built an object detector using Tensorflow and a custom created dataset for recognizing the four swimming strokes
- **Global Poverty Visualizer** - Led a team of four to develop a website to display and process global poverty data through a MySQL database
- **Barber** - Collaborated with a team of seven to create an Android app capable of recommending stylish haircuts utilizing Microsoft Azure, Firebase, and a custom devised algorithm

## Awards

- **2018 Pyghack hackathon winner** - for best use of Wolfram Alpha technologies
- **Dean's List** - Fall 2019, Spring 2020, and Spring 2021

## Technical Skills

- **Languages:** Python, Java, C, C++, Git, SQL, MongoDB, Neo4j, HTML, CSS, JavaScript
- **Technologies and Frameworks:** Jira, Spring Boot, Cucumber, Django, Angular, test and behavior driven development