

# Joseph Demcher

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## OBJECTIVE

- To obtain a position in software development where my passion, innovation, and education can work in conjunction with my hands on experience as a hands-on developer who writes high quality, secure code that is functional, testable, and deployable and enjoys seeing the impact code can have in the daily lives of everyday people in a rapidly changing and growing world.

## EDUCATION

### New Jersey Institute of Technology, Newark, New Jersey

*expected graduation date May 2020*

- Pursuing a Bachelor of Science degree in Computer Science and Mathematical Sciences
- GPA: 3.235 / 4.00 - enrolled in the Albert Dorman Honors College at NJIT
- Dean's List – Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018

## RELEVANT COURSEWORK

Data structures  
Object-oriented design

Complexity analysis  
Database design

Data analytics  
Discrete mathematics

## SKILLS

- Possesses a strong foundation in algorithms, data structures, and core computer science concepts.
- Highly proficient in multiple high-level programming languages such as Java, Python, and C++.
- Experienced in responsive design and modern browser techniques using HTML5, JavaScript, CSS, and HTTP.

## WORK EXPERIENCE

### Collabera Inc. – Basking Ridge, NJ

*Finance Intern – Data Analytics*

*July 2019 to August 2019*

- Assisted in the end-to-end development of a companywide system tool to automate over 100,000 classifications annually utilizing neural networks in Python through the Keras, Pandas, and SciKit libraries.

### Martin Tuchman School of Management – Newark, NJ

*Teaching Assistant – Financial Literacy Camp*

*June 2018 to August 2018*

- Facilitated the immersion of an intensive hands on introduction to financial markets for 30 students.
- Developed curriculum to lead and facilitate group discussions and exercises.

### New Jersey Institute of Technology – Newark, NJ

*Resident Assistant – Albert Dorman Honors Hall*

*January 2018 to February 2019*

- Oversaw the development of a community, and overall wellbeing of 80 undergraduate residents through conducting 30+ interactive programs on diversity, professional growth, inclusion while managing administrative tasks including regular room inspections, maintenance requests, and incident reports.

### Ying Wu College of Computing – Newark, NJ

*Undergraduate Teaching Assistant.*

*September 2017 to May 2018*

- Contributed to the development of effective teaching materials including designing online tutorials directed towards course content, building scripts to automatically grade homework, and conducting study groups.
- Delivered a range of assessment activities and reported major conclusions on comprehension of material to superiors and provided course correction.

## ACTIVITIES AND ORGANIZATIONS

### CoDaS Lab – Newark, NJ

*Undergraduate Research Assistant*

*March 2017 to December 2017*

- Conducted research on and the development of statistical image analysis tools for computer vision models.

### Circle-K – New Jersey Institute of Technology Chapter, Newark, NJ

*Executive Board Member – Event Coordinator*

*October 2016 to present*

- Coordinated and lead a team to execute campaigns and service-based initiatives, directing 300+ volunteers raising thousands in funds to support various charities and causes to empower society.

- Prepared activities to engage student interest and participation while explaining complex computer science concepts in a manner equivalent for their grade level (ranging from 5<sup>th</sup> to 8<sup>th</sup> grade).

References:

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