

# Michael Carroll

mcarroll001@csbsju.edu | 651.307.7966

## EDUCATION

### SAINT JOHN'S UNIVERSITY

#### BA IN COMPUTER SCIENCE

Expected May 2020 | Collegeville, MN

Cumulative GPA: 3.7 / 4.0

Dean's List

### MAHTOMEDI HIGH SCHOOL

#### DIPLOMA

June 2016 | Mahtomedi, MN

Graduated with honors

## LINKS

[michaelcarroll.github.io](https://michaelcarroll.github.io)

[github.com/michaelcarroll](https://github.com/michaelcarroll)

[linkedin.com/in/mgcarroll](https://www.linkedin.com/in/mgcarroll)

## COURSEWORK

### CSCI 230: Software Development

*Software Engineering*

*SQL Database Concepts*

*Unit & Functional Testing*

*Unified Modeling Language*

*Unix Tools and Scripting*

*Version Control (Git)*

### CSCI 200: Data Structures

*Implementation and Usage of Data Structures*

*Program Efficiency*

*Abstraction*

*Large Software Systems*

### CSCI 310: Computer Organization

*Computer Systems & Architecture*

*Machine-level Data Representation*

*Assembly-level Machine Organization*

*Processor Design*

*Memory Systems*

### CSCI 239: Discrete Structures

*Discrete Mathematics*

*Recursion Relations and Induction*

*Logical Proofs*

*Discrete Probability*

*Small-scale Programs in Haskell*

### CSCI 160: Programming

*Problem Solving*

*Small-scale Programs in Java*

*Polymorphism*

*Javadoc Documentation*

## SKILLS

### PROGRAMMING

C/C# • Java • Python

Bash / Unix Tools • UML

VBA • Haskell • Git • L<sup>A</sup>T<sub>E</sub>X

### OTHER

Hiking • Cooking • Mountain Biking

Skiing • Travel

## EXPERIENCE

### SAINT JOHN'S UNIVERSITY | RESIDENT ASSISTANT

August 2017 – Present | Collegeville, MN

- Acted as a liaison between university's Residential Life / Housing Department and students
- Demonstrated leadership while providing personal, social, and academic guidance and support
- Developed events that fostered an inclusive atmosphere
- Solved personal conflicts between residents by thoroughly considering all stakeholders

### INDUSTRIAL AUTOMATION SYSTEMS | INTERN

November 2017 – January 2018 | Grant, MN

- Replaced existing company server equipment with new servers
- Configured active directory, domain controller, and DHCP server
- Flashed and installed Cisco network equipment using TFTP server and Terminal emulator
- Exposure to GE Cimplicity HMI & SCADA high performance manufacturing solutions and workflows

### SAINT JOHN'S UNIVERSITY | STUDENT COMPUTER TECHNICIAN

August 2016 – May 2017 | Collegeville, MN

- Provided tier II technology support to over 3000 students and faculty
- Troubleshooted and repaired computer hardware/software (Windows, MacOS, iOS, Android), imaged computers, active directory
- Worked with a team to implement campus-wide safety measures
- Created and maintained support documentation for common problems and technical training, increasing overall department efficiency

## PROJECTS

### LINKBUS | JAVA, ANDROID

September 2017 – Present

- Provides an always-accurate view of the intercampus Link bus schedule for the College of Saint Benedict & Saint John's University campuses
- Lightweight, follows Material UI guidelines, pulls schedule data from school's server, remote alert system, built-in time handling using JodaTime library

### COGNIFY | C#

January 2018 – Present

- Detects and analyzes faces to detect a person's mood and uses the results to play a perfectly tailored playlist on Spotify
- Uses Microsoft Azure's Cognitive Services "Emotion" API to detect faces and recognize emotions

### CHOOSE MY COLLEGE (COURSE PROJECT) | JAVA

January 2018 – Present

- Worked with a team of four on a semester-long project to develop an online college discovery/search engine for students
- Exhibited proper software development practices including consistent coding style, roll assignments, conflict resolution, version control, UML diagramming, class diagrams, JUnit testing, and Javadoc documentation