

Michael Carroll

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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

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 • \LaTeX

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