

# DAVID MITRE

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**Availability: January 2023 - June 2023**

## EDUCATION

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**Northeastern University** Boston, MA   September 2020 - Present  
Khoury College of Computer Sciences   Expected May 2024  
Candidate for Bachelors of Science in Computer Science   Dean's List, GPA: 3.98/4.0  
Relevant Courses: Object Oriented Design, Algorithms & Data, Networks & Distributed Systems,  
Artificial Intelligence, Computer Systems, Fundamentals of Digital Design, Software Development

**Harvard University Summer School** Cambridge, MA   June 2019 - August 2019  
Course Taken: Intensive Introduction to Computer Science with Java   GPA: 4.0/4.0

**Eric Hamber High School Challenge Program** Vancouver, BC   September 2016 - June 2020  
Relevant Courses: Self Directed Programming, Intro to C++, Intro to Python, AP Calculus   GPA: 3.97/4.0

## SKILLS

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**Languages:** Java, C++, Python 2/3, MIPS Assembly, mySQL  
**Software:** Eclipse, IntelliJ IDEA, Atom, Git  
**Libraries:** JUnit testing, Swing GUI, Numpy, Pandas, Matplotlib  
**Operating Systems:** Windows, Linux, Apple OS

## PROJECTS

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**Image Editing Software**   October 2021 - December 2021  
*Course Group Project*   *Object Oriented Design*

- Utilized Java to form an image editing application, with extendibility and safe coding practices to accommodate biweekly software additions
- Used GIT version control and leadership skills to maintain healthy working cycle for group
- Pair programmed features with alternating lead for teamwork experience

**Live Location-Based Bus Tracking**   February 2020 - June 2020

- Completed using API integration and Java Native Interfacing
- Integrated C# code into a java program for location services on a Windows device
- Used existing API of bus services/stops to show user bus stops near them and the arrival times of buses
- Created Swing GUI elements for usage in application
- Utilized a basic form of caching to allow storing bus values in case of internet disconnect

**MySQL Student Database**   September 2019 - December 2019

- Created a student, course, and professor database alongside a GUI program managing the database
- Completed using mySQL, Java and Swing GUI
- Used joins, prepared statements, selects, and Primary/Foreign keys to allow creation of students, teachers, and courses, as well as having teachers teach sections of a class, assigning students to classes, and more
- Formed using concepts of Model, View, Controller architecture
- Avoided SQL injection attacks using basic safe procedure such as sanitizing input
- Created actionable user stories through the GUI, and protection against unexpected and unintended usage

## INTERESTS

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Practicing Karate, Genetics, Community Volunteer Work, NHL Hockey, NBA Basketball, LCS/LCK professional leagues, Album reviews