

# Bereket Faltamo

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## EDUCATION

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### Northeastern University

Boston, MA

*Master of Science in Computer Science(Co-op)*

*Sep 2022 – May 2025(Expected)*

- GPA: 4.0/4.0

### Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, Korea

*Bachelor of Science in Mechanical & Electrical Engineering(Double Major)*

*Feb 2017 – Dec 2021*

**Relevant Coursework:** Object-Oriented Design, Operating Systems, Programming Structures, Data Structures & Algorithms, Robotics Engineering, Machine Learning, Mobile Robotics, Computer Vision, Dynamics

## EXPERIENCE

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### Summer Research Fellow

July 2023 – Present

*Massachusetts Institute of Technology (MIT)*

*Boston, MA*

- Working on projects in the areas of geometry processing, computer vision/graphics, etc.

### Teaching Assistant | CS 5002: Discrete and Data Structures

Dec 2022 – Present

*Northeastern University Khoury College of Computer Sciences*

*Boston, MA*

- Held office hours for 80+ students to review course content and problem sets
- Graded problem sets & exams and provided the course instructore feedback on students' performance

### Robotics Software Engineer

Apr 2022 – Aug 2022

*DOGU Co., Ltd*

*Seoul, Korea*

- Designed and implemented an docking algorithm for charging of autonomous service robots using ROS move\_base stack and a V-shaped charging station
- Integrated a SLAM algorithm to a UGV to autonomously navigate in farmland using RGB camera and 3D LiDAR

## PROJECTS

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### NU-foundit! | JavaScript, Bootstrap, React, Redux, Node.js, Express.js, MongoDB, Git

- Developed a lost and found web application in Javascript for Northeastern University students
- Engineered a RESTful API with Node.js and Express, connecting to MongoDB to manage lost and found item records and user interactions securely
- Designed a user-friendly Single Page Application (SPA) using React and Redux, integrating Bootstrap for responsive and intuitive web pages

### Tux Shell | C, Unix, Perl, Git

- Architected and implemented a command-line interface that parses and executes user input commands.
- Utilized system calls to execute shell commands, providing users with access to basic file management and process control functionality
- Thoroughly tested the implementation using Perl script

### Photo Album | Java, Swing, HTML/CSS, JUnit, Git

- Implemented a custom photo album using Model-View-Controller(MVC) architecture and OOP principles
- Designed graphical and web viewers using Java Swing and HTML/CSS
- Ensured robust functionality via comprehensive JUnit testing

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, MATLAB

**Frameworks:** Bootstrap, jQuery, React, Node.js, Express, MongoDB, JUnit, ROS

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ

**Libraries:** OpenCV, PyTorch, NumPy, Matplotlib