Bereket Faltamo

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EDUCATION

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

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 instructor 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

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

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