# NOAH HATHOUT

nhathout11@gmail.com |(704) 777-7361 | https://www.linkedin.com/in/noah-hathout/ | github.com/nhathout | Boston, MA

## EDUCATION

B.S. in Computer Engineering, **Boston University** (GPA: 3.69 / 4.00) — Expected May 2025
Concentration: Machine Learning — Dean's List

## SKILLS

**Languages & Frameworks:** Python, C, C++, C#, TensorFlow, PyTorch, MATLAB, JavaScript, HTML/CSS, Java
**Hardware & Embedded Systems:** Arduino boards, Raspberry Pi, ESP32 microcontrollers, NVIDIA Jetson AGX Orin, UR5e & UR10e robotic arms
**Robotics & Simulation:** Robot Operating System 2 (ROS2), NVIDIA Isaac Sim, nvblox, Visual SLAM
**Sensors & SDKs:** Intel RealSense D435i, Orbbec Gemini 2L/335L, Intel RealSense SDK, Orbbec SDK
**Development Tools:** Git, GitHub, Docker, Arduino IDE, UltiMaker Cura, ESP-IDF
**Operating Systems:** Ubuntu Linux, Windows 10/11, macOS

## RELEVANT COURSES

Intro to Software Engineering | Intro to Machine Learning | Intro to Logic Design | Deep Learning | Signals and Systems
Reinforcement Learning | Smart (Embedded) Systems | Computer Organization | Software Design | Probability and Stats

## EXPERIENCE

**Research and Development Intern** — Odense, Denmark
Universal Robots — May 2024 - Sep 2024

- Engineered a high-impact project within the Innovation Lab, working extensively with computer vision technologies, integrating depth-sensing cameras
- Developed software using ROS2, NVIDIA packages, C++, Python, and Docker environments

**Teaching Assistant** — Boston, MA
Boston University, College of Engineering — Jan 2023 - May 2023

- Collated supplies for class, administered two weekly office hours
- Built 2 Ender-3 V2 3D printers and coordinated 3D prints for student projects

**Entrepreneur** — Charlotte, NC
GriplS — May 2020 - Aug 2022

- Established an online and in-person retail business; sold accessories for sports gear
- Distributed 50% of net profits to various non-profit organizations such as Autism Speaks

## PROJECTS

**bghtNET - Deep Learning Final Project (EC523)** — Feb 2024 - May 2024

- Revitalize Meta's state-of-the-art model Detectron2 into a facial recognition and attention-seeking model.
- Integrated COCO instance segmentation with a retrained Detectron2 model to analyze attention patterns in real-time video streams.

**MATLAB Gentrification Analyzer - Intro to Engineering Final Project (EK125)** — Sep 2021 - Dec 2021

- Conducted data analysis study on building permits in San Francisco to provide conclusions about gentrification in the city
- Analyzed over 180,000 data points and authored technical reports to document findings

**SitDown - Intro to Software Engineering Final Project (EC327)** — Jan 2022 - May 2022

- Led and managed team of 4 engineers to develop a web application allowing users to reserve restaurant tables using MongoDB, HTML, and JavaScript
- Presented final application to professor and class of 25 students

**Additional Projects**

- Digital Thermometer Prototype (EK131), Truss Stress Analyzer (EK301), Smart Bike Light, RedLight.link

## AFFILIATIONS

Member of IEEE | BU Intramural Tennis | BU Marine Science Association | BU Motorsports Club