NILE CAMAI

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EDUCATION

University of Washington
Sep 2020 – Jun 2024

Bachelor of Science, Computer Science — Seattle, WA

- GPA: 4.0
- Direct-to-major admission into the Paul G. Allen School of Computer Science and Engineering.

SKILLS

Java, JavaScript, Python, Android, Node.js, Swift, HTML, CSS, Bash/Shell, Git

EXPERIENCE

Paul G. Allen School of Computer Science and Engineering
Jan 2021 – Present

CSE 14x Undergraduate Teaching Assistant — Seattle, WA

- Assisting the instruction of CSE 142 (Computer Programming I). Responsibilities include teaching Java programming, leading weekly sections, grading, and helping students with lecture concepts at the Introductory Programming Lab.

Advanced Robotics at the University of Washington
Jan 2021 – Present

Controls Team Member — Seattle, WA

- Competing in the DJI RoboMaster University Championship. Working on C++ control systems as a software team member.

Skyline Spartabots Robotics Team
Jan 2017 – May 2020

President (2019 - 2020), Vice President (2018 - 2019), Build Lead (2017 - 2018), Member (2017) — Sammamish, WA

- Competed in the FIRST Robotics Competition. Managed and mentored a club of over sixty active members.

Robot U
Oct 2017 – Aug 2019

Coding & Robotics Instructor — Duvall, WA

- Taught Scratch programming and LEGO robotics to elementary-school students in the Greater Seattle Area.

MIT Lincoln Laboratory
Jul 2018 - Aug 2018

Beaver Works Summer Institute Student — Cambridge, MA

- Worked on a team of five to research and develop a UAV-SAR (Unmanned Aerial Vehicle Synthetic Aperture Radar) system.

PROJECTS

FaceMe Python, OpenCV, Google Cloud API
Worked on a team of five to develop a desktop interface that improves the accessibility of video calls with voice commands and visual/auditory cues. Won the Best Use of Google Cloud API and Best First-Time Hack awards at DubHacks 2020.

TelloMapper Android Studio, Java, Go
Independently built and released a mobile Android application which allows a user to draw and save maps of flight paths for the DJI Tello drone. Flight instructions for a wirelessly-connected drone can be executed from the Android device.

Synthetic Aperture Radar GUI Python, Tkinter, PulsON 440
Programmed a desktop application designed for use alongside a UAV-mounted PulsON 440 Radar in order to create synthetic aperture radar (SAR) images. Built during MIT Beaver Works Summer Institute 2018.

AWARDS

Best Use of Google Cloud API, Best First-Time Hack
Oct 2020

DubHacks

Project Management Business Solutions Winner
Jan 2020

Washington DECA

World Championship Winners
Apr 2018

FIRST Robotics Competition