

# NILE CAMAI

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## EDUCATION

### University of Washington

Bachelor of Science, Computer Science | GPA: 3.96

Sep 2020 – Jun 2024

Seattle, WA

- Direct-to-major admission into the Paul G. Allen School of Computer Science and Engineering.
- CSE Coursework: Computer Programming I & II, Software Design and Implementation, Foundations of Computing I, Hardware/Software Interface

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## SKILLS

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

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## EXPERIENCE

### Paul G. Allen School of Computer Science and Engineering

CSE 14x Undergraduate Teaching Assistant

Jan 2021 – Present

Seattle, WA

- Assisting the instruction of CSE 143 (Computer Programming II). 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

Controls Team Member

Jan 2021 – Present

Seattle, WA

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

### Skyline Spartabots Robotics Team

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

Jan 2017 – May 2020

Sammamish, WA

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

### MIT Lincoln Laboratory

Beaver Works Summer Institute Student

Jul 2018 - Aug 2018

Cambridge, MA

- Worked on a team of five to research and develop a UAV-SAR (Unmanned Aerial Vehicle Synthetic-Aperture Radar) system.
- Responsible for assembling the hexacopter drone and for developing a data visualization desktop application.

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## PROJECTS

### FaceMe Python, OpenCV, Google Cloud API

<https://devpost.com/software/facecentric>

- Developed on-screen visual cues for a desktop interface that improves the accessibility of video calls.
- Worked on a team of five and won the Best Use of Google Cloud API and Best First-Time Hack awards at DubHacks 2020.

### TelloMapper Android Studio, Java, Go

<https://github.com/nilecamai/TelloMapper>

- Independently built a mobile Android application which allows a user to draw flight paths for a DJI Tello drone to perform.
- Saved flight instructions for a wirelessly-connected drone could be executed from the Android device.

### Synthetic Aperture Radar GUI Python

<https://github.com/nilecamai/UAV-SAR/>

- Programmed a graphical user interface that visualized synthetic-aperture radar scan data using back-projection scripts.

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## AWARDS

### Best Use of Google Cloud API, Best First-Time Hack

DubHacks

Oct 2020

### World Championship Winners

FIRST Robotics Competition

Apr 2018