Peter Gunarso

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Education

University of Washington **Sep. 2018 – Dec. 2021**

Bachelor of Science in Computer Engineering, GPA: 3.71 *Seattle, WA*

Minor in Applied Mathematics

Relevant Coursework

- Data Structures
- Algorithms
- Database Management
- Distributed Systems
- Operating Systems
- Networks
- Machine Learning
- Digital Design

Experience

Underwater Remotely Operated Vehicles (UWROV) **Jan 2019 – November 2021**

Software Lead *Seattle, WA*

- Led team of 11 students to design, test, and document software components of an ROV which competed in the 2021 international MATE ROV competition.
- Implemented subroutines to enable ROV to interact with the physical world using motors, sensors, and manipulators.
- Designed training materials for new members to learn basics of ROS, circuitry, and computer vision.
- Assisted in managing club organization, finances, and scheduling.

Nordstrom Tech **June 2021 – August 2021**

Software Engineer Intern *Seattle, WA*

- Supported the enterprise authentication team which enables 70k+ employees and external vendors to securley and conveniently access Nordstrom applications and resources.
- Created a set of dashboards which visualize key authentication data using JavaScript, Python, and Splunk.
- Created and deployed a CronJob which automatically suspends inactive users using Java, Docker, and Kubernetes.

Projects

MATE ROV 2021 Machine Learning Challenge | *Azure, Python, JavaScript* **April 2021 - June 2021**

- Led team of 4 to create series of computer vision algorithms to recognize, categorize, and record sightings of fish in a given video.
- Created an Electron app which submitted a video to an Azure-hosted server and displayed the results of the algorithm.
- Placed 3rd internationally in the MATE ROV 2021 Machine Learning Challenge.

ImPosture | *JavaScript, React, PoseNet* **October 2020**

- Created a free, React based app meant to help users improve their posture while sitting at their desk during quarantine.
- Used the TensorFlow JavaScript PoseNet model, which used a camera stream to determine a user's pose entirely through the user's web browser.
- Used React and Node.js to build core functionality in both front and back ends.

***League of Legends* Ranked Data Gathering and Analysis Project** | *Python, Pandas, AWS* **June 2019**

- Created Python script to collect, store, analyze, and visualize hundreds of gigabytes of ranked play data from *League of Legends* Ranked Data API.
- Used AWS to continously gather and store data using Python script for two weeks.

Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, LaTeX
Developer Tools: VS Code, IntelliJ, AWS, Docker, Kubernetes, Git, JUnit
Technologies/Frameworks: Pandas, Numpy, Unix, OpenCV, ROS, FreeRTOS
Skills: Algorithm Design, System Design, Computer Vision, Data Analysis, Leadership, Verbal and Written Communication

Extracurricular

Mana Group LLC **2016 – Present**

Shipping Consultant

- Communicated with dozens of clients every week in a retail setting. Workedto pinpoint their shipping needs, suggested appropriate options which balancedprice, speed, and safety.
- Used Flask to develop a web app to compare shipping rates across 3 carriersand 10 services.