

Andy Phung

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Education

Oregon State University

Bachelor of Science in Computer Science

Corvallis, OR 97331

Jan 2021 – Present

- Expected graduation date: March 2023 – Current Cumulative GPA: 4.0/4.0.

Rush University – College of Health Sciences

Master of Science in Cardiovascular Perfusion

Chicago, IL 60612

Sep 2018 – May 2020

- Cumulative GPA: 4.0/4.0 – Awarded Dean's Award for Outstanding Academic Achievement.
- Completed one year of clinical rotations from 08/2019 to 04/2020, at Mayo Clinic, Indiana University Health Hospitals, and at Hospital of the University of Pennsylvania.

California State University, Long Beach

Bachelor of Science in Biology

Long Beach, CA 90840

Aug 2012 – Dec 2016

- B.S. in Biology, with option in Molecular Cell Biology and Physiology, and a minor in Chemistry.

Work Experience

InternHacks

Software Engineer Intern

Online (Remote)

June 2021 – July 2021

- Participated in a seven-week program that combined the best of a tech internship and a hackathon.
- Worked and presented with tech industry engineers, designers, and product managers.
- Collaborated with a team through Agile development to complete a full-stack web application.

UCLA Health

Staff Perfusionist

Los Angeles, CA 90095

May 2020 – Sep 2020

- Provided critical patient care through extracorporeal circulation and/or oxygenation, myocardial and/or organ protection and preservation, blood component and drug/fluid administration.
- Assembled extracorporeal circuits and operated the heart-lung machine along with heater-coolers and the cardioplegia delivery system, and coagulation monitors during open-heart surgery.
- Maintained critical care for COVID-19 positive patients on ECMO support in the cardiac ICU.

Software Projects

Exercise Tracker (<https://github.com/a-phung/exercise-tracker>)

Aug 2021

- Developed a full-stack web application implemented with the MERN stack.
- Utilized: MongoDB & Mongoose, Express.js, React.js, Node.js, HTML, CSS, JavaScript, REST API

FairView (<https://fair-view.herokuapp.com/>)

InternHacks – July 2021

- Developed a full-stack web application alongside an interdisciplinary team and deployed on Heroku.
- Worked on both the front-end and the back-end development of the application.
- Implemented a Python script to analyze csv files and to compile the data into an HTML table.
- Won "Best architectural design" and "Best technical problem" awards.
- Utilized: Python, Flask, Heroku, HTML, CSS, JavaScript, Jinja2, SQLAlchemy, PostgreSQL, Git

Kuba Board Game (<https://github.com/a-phung/kuba-game>)

May 2021

- Developed a command-line board game implemented with Python and 2-D arrays.
- Tested the board game logic with Python's unit testing framework.
- Utilized: Python, object-oriented programming, unit testing

Covid Clarified (<https://hackor-group41.herokuapp.com>)

HackOR 2021 Hackathon – Mar 2021

- Worked on the front-end alongside a team to build a full-stack web application.
- Incorporated a 3d-model of a COVID-19 virion on the homepage using echoAR.
- Won "Best AR/VR project powered by echoAR" category award.
- Utilized: HTML, CSS, JavaScript, Heroku, echoAR, Git

Technical Skills

- Programming languages: Python, C, C++, Git, HTML, JavaScript, CSS
- Web Development: MongoDB & Mongoose, Express, React, Node, Flask, RESTful services, REST API
- ABCP-certified cardiovascular perfusionist.