

Peter Marsh

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EDUCATION

M.S. BIOMEDICAL ENGINEERING – DATA ANALYSIS & SOFTWARE DESIGN CONC.

NORTHWESTERN, MCCORMICK SCHOOL OF ENGINEERING – EXP. 2026

B.S. BIOMEDICAL ENGINEERING – COMPUTER SCIENCE MINOR

UCLA, SAMUELI SCHOOL OF ENGINEERING – 2023

PROFESSIONAL EXPERIENCE

FULL-STACK SWE/MACHINE LEARNING SPECIALIST

REDMOND, WA

COTIVE.AI

JUNE 2025 - SEPT 2025

- Developed and maintained web application features using **Supabase, TypeScript, React, Next.js, and Tailwind CSS**. Led end-to-end development, from database schema design to UI implementation, within an **agile** startup environment.

SOFTWARE ENGINEER

SEATTLE, WA

LINTBOOK.COM

JUNE 2024 - MARCH 2025

- Designed workflows in **Python** utilising Machine Learning image recognition methods, **AWS Lambda**, and **AWS cloud storage systems** to create automated systems for data extraction from customer invoices/expense images uploaded to the app or email forwarded.

CLINICAL RESEARCH DATA SPECIALIST I

LOS ANGELES, CA

CEDARS-SINAI HOSPITAL MEDICAL IMAGING

JUNE 2023 - JUNE 2024

- **Researched & developed Deep Learning/Machine Learning computer vision models** with Cedars-Sinai BIRI to segment and process data from CT, MRI, and Retinal images for assessment of potential disease risk factors with **funding from the United States Department of Defense**.

SOFTWARE ENGINEER

LOS ANGELES, CA

UCLA B.M.E.S. DESIGN TEAM

DECEMBER 2021 - MAY 2022

- Worked with a group of 9 other engineers from UCLA's Biomedical Engineering Society to develop a prototype therapeutic glove to aid in Parkinson's rehabilitation. Used **React Native** to design an **IOS app**, and **C++** to manage **Arduino** controlled glove sensors and data analysis.

TEACHING AIDE – MATH 120

SEATTLE, WA

UNIVERSITY OF WASHINGTON

JUNE - SEPTEMBER 2018 & 2019

- **Graded and recorded assignments for classes of 60+ students**, and assisted professor in organising lectures and accompanying coursework as well as providing out of class office hours for students in need of extra help.

RELEVANT PROFICIENCIES, INDIVIDUAL PROJECTS, AND CERTIFICATIONS

- **Created a Machine Learning-Driven Dungeons and Dragons digital DM** subscription-based service deployed an playable at <https://bardlore.com>
- **Machine Learning and Deep Learning** model design (**Scikit Learn, Tensorflow/Keras, etc.**), Computer Vision/image analysis (**PyTorch & Open CV**)
- **AWS Certified Cloud Practitioner**
- **Designed personal website** deployed at <https://peterbmarsh.com>
- **Created a Super Mario Bros. Emulator in C++** for practice with object oriented programming