

Will Borie

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Education

University of Southern California

Master of Science - M.S. Computer Science (GPA: 4.0)

2020 - 2022

Bachelor of Science - B.S. Computer Science (GPA: 3.7)

2017 - 2021

Awards and Recognition

University of Southern California - Computer Science Master's Honors Program

University of Southern California - Magna Cum Laude

University of Southern California - Presidential Scholar

Menlo School - National Merit Scholar, National AP Scholar, Math Department Award in Computer Science

Experience

Machine Learning Engineering Intern, Apple

June - August 2021

- Designed and built a new service to answer customer questions about Apple products through conversational AI.
- Implemented state-of-the-art natural language processing models like BERT and TAPAS for question-answering.
- Developed pipeline for scraping the Apple Online Store, preprocessing, training (and customizing) machine learning models, and deploying models behind a REST API.
- Presented to Apple Leadership team in final stages of internal pitch competition for Apple product improvements.

Software Engineering Intern, Apple

June - August 2020

- Evaluated new resource-efficient cloud deployment candidates for mission-critical cron jobs to reduce long-term maintenance costs.
- Leveraged emerging technologies such as containerization and serverless execution models.
- Presented to Apple Leadership team in final stages of internal pitch competition for Apple product improvements.

Software Engineering Intern, Zap Surgical Systems

May - July 2019

- Automated visualization of patient treatment information by creating a generic report generator, allowing for the use of custom templates to convert raw treatment data into professional PDF reports.
- Improved security by building an OpenID Authentication client (using Azure AD) and corresponding endpoints for multi-factor authentication and authorization through permissions-based access tokens.
- Implemented new features on enterprise web application using ReactJS, Node, Mongo, and AWS EB.

Software Engineering Intern, FogLogic

May - August 2018

- Wrote new APIs to implement stakeholder requirements that expanded SAP system monitoring and reporting capabilities
 - Collaborated with a team of 20 engineers on full-stack projects using Java, PHP, and ReactJS.
 - Completed 70+ tickets through an Agile development process
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Skills

Python, PyTorch, SQL, AWS, Docker, HTML5, CSS3, Javascript, NodeJS, ReactJS, Java, C++, C, iOS, PHP, Mongo
Fluent Native French & English Language Proficiency

Projects

Personal Website featuring Algorithm Visualizations

September 2018 - Current

- Built and deployed a personal website (www.willborie.com) from scratch using latest web and cloud technologies.
- Created an interactive experience showcasing my front-end and back-end abilities, including a C++ back-end for executing graph algorithms and a front-end for displaying results using HTML5 Canvas.

Lux AI Challenge

August 2021 - Current

- Competed in AI game programming competition to solve resource allocation and optimization problems.
- Submitted several high-performing agents, placing in the top 10% of over 1,000 teams worldwide.
- Leveraged cutting-edge techniques such as imitation learning, deep reinforcement learning, evolutionary strategies, and Monte Carlo Tree Search.