

ELLIOT BERDY

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Independent and self-motivated software engineer with experience building a beta product at an early-stage startup and working with and leading small teams in fast-paced dynamic environments. Seeking opportunities where I really align with company mission and product, can grow into the role over the next few years, and can make meaningful contributions and drive impactful outcomes.

Experience

Software Engineer

Fayble Inc., August 2023 - Present

- Developing sole means for user-product interaction through interactive voice response (IVR) interface using AWS, Python, Nakama, and Apache Kafka, enabling users to engage in an interactive and dynamic experience
- Optimized storage and retrieval of user-related data by configuring DynamoDB as persistence layer and utilizing Nakama storage engine, allowing for personalized experience
- Enabled IVR interface to adapt to changing game scenarios by implementing dynamic entities to support varied and evolving voice response options
- Designed and implemented user-product interaction flow by creating specialized handlers for product specific actions, including starting the game, making wagers, analyzing past wagers, and managing game states, creating a user friendly and engaging experience

Student Researcher

UCLA Neurosurgery, November 2021 - November 2022

- Developed MRI modality image classifier with Python and Tensorflow, achieving a 98.9% accuracy by leveraging transfer learning with five state-of-the-art deep learning models
- Enabled training of machine learning algorithms to assess and quantify paraspinal muscle degeneration by collaborating with multidisciplinary team of researchers and neurosurgeons to manually segment paraspinal muscles in lumbar MRIs
- Contributed to writing and publishing multiple research papers in prestigious journals, including World Neurosurgery and SPIE Medical Imaging

AbbVie Inc.

Research Analyst, August 2020 - December 2020

- Helped derive meaningful insights in oncological research by producing five dynamic dashboards utilizing Python and the Health Data Platform, showcasing essential patient baseline information and healthcare costs and utilization patterns across diverse diseases and treatment modalities
- Contributed to the advancement of equitable healthcare practices at AbbVie by utilizing SAS and national databases to measure and analyze diversity within AbbVie's clinical trials

Camp Stone

Outdoor Leadership Program Director ('22-'23); Division Head ('21); Medic; Counselor ('18-'20), June 2018 - August 2023

- Facilitated growth of 80 10th grade students as individuals and leaders in their communities by designing and running month-long outdoor leadership program with weeklong hiking and canoeing trips and experiential education focused on community and the power of speech

Education

Bachelors of Science in Computer Science, 2023

University of California, Los Angeles (UCLA)

GPA/Honors: 3.63; Dean's Honor List (Spring 2020, Fall 2021, Spring 2022), President of Hillel at UCLA

Relevant Coursework: Machine Learning, Neural Networks and Deep Learning, Artificial Intelligence, Natural Language Processing, Neural Signal Processing, Software Engineering, Data Structures and Algorithms, Algorithms and Complexity

Projects

JCAL: Software to automate creation of a synagogue's yearly calendar, currently working with first customer - React, JavaScript, Flask

MyFood: Web app that tracks user's dietary habits and physical state to find trends between food consumption and physical well being - HTML, CSS, JavaScript, Node.js, Express.js, Postgres

Personal Website: <https://www.elliottberdy.com/> - React, TypeScript

Skills

Python, React, C++, JavaScript, Git, Linux, HTML/CSS, Tensorflow, Pytorch, Postgres, Docker, GCP, AWS, C, Node.js, Leadership, Communication, Teamwork; Proficient in Hebrew