FARHAN A. ABDULLA

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EDUCATION

University of California, Berkeley | Berkeley, CA
B.A. Data Science & emphasis in Business Analytics

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, C++, HTML, JavaScript, & CSS
Frameworks & Libraries: Kivy, PANDAS, Seaborn, React, Scikit-learn, PyTorch
Tools: Intellij, Visual Studios Code, Git, & Arduino

EXPERIENCE

ML Engineer & Developer **UC Berkeley |** Berkeley, CA
May 2025 - Present

- Developing the official website for the Deep Past Initiative using docusaurus.
- Cleaning and engineering low-resource, historical, linguistic datasets for the Deep Past Initiative.
- Collaborating on the development & training of BART models for lemmatization of Akkadian, contributing to the advancement of NLP tools for the low-resource languages.

Machine Learning Engineer Intern Lead **UC Berkeley |** Berkeley, CA
Jan 2025 - May 2025

- Lead a team of seven to develop a token prediction model for Akkadian, focusing on token prediction.
- Oversaw the development and fine-tuning of two models: mBERT and a T5 pre-trained Hugging Face model.
- Designed model training workflows, including data preprocessing, architecture selection, and evaluation strategies.
- Established key milestones and coordinated team efforts to ensure alignment with project goals.

Software Engineer Intern **3DT Holdings LLC |** San Diego, CA
March 2025 - May 2025

- Returning to design and implement a secondary stepper motor feature in my previous Kivy-based application.
- Collaborating with Electrical Engineer to test and further improve motor response and speed.

Software Engineer Intern **3DT Holdings LLC |** San Diego, CA
May 2024 - August 2024

- Independently designed and developed Raspberry Pi touchscreen application for an industrial dip coating machine using the Kivy library in Python.
- Programmed Arduino sketch in C++ for stepper motor and improved communication between the hardware and software through serial communication, enhancing motor response by reducing occasional delays.
- Led and planned cross-functional collaboration during the testing phase of 12 test runs with the machine builder to ensure software-hardware integration and reducing system errors by resolving all bugs from test cases.

Software Engineering Research intern **Goodly Labs |** Berkeley, CA
January 2024 - April 2024

- Integrated company data with user content data, using React and Django, improving training data for AI.
- Led and structured workflow for my team of 3 people and managed communication between team and project manager.
- Data cleaned sources from Twitter using Twitter's API and PANDAS to improve variance and bias in AI models.
- Presented at the UC Berkeley Data Science Discovery Program Symposium where my team and I won the Best in Show award for our approach at tackling misinformation.