Brandon Micale Kelley

14bmkelley@gmail.com • 360.320.7728 • https://linkedin.com/in/14bmkelley • https://brandonkelley.life

"We can only see a short distance ahead, but we can see plenty there that needs to be done." ~ Alan Turing

Objective

I aspire to empower everyday people with intuitive, multi-modal experiences that enable informational analysis and insights.

Experience

Renewables Data Analyst II, Duke Energy Sustainable Solutions **April 2021 - Present (6 months)**

I perform trend analysis, modeling exercises, and automated reporting to motivate cross-functional process and technology changes. I have introduced systems to benchmark standard work speed and reduce problematic ticket volume by 30%.

• Automated PV production reporting • Pipelined monitoring install process • Aging work order and invoice reduction

Systems Analyst / Developer, REC Solar Commercial Corporation **July 2018 - April 2021 (2 years, 10 months)**

Oversaw software integrations on the Business Information Systems team. Reduced cycle times, project costs, and redundant business processes. Motivated data analysis adoption across business divisions with Microsoft Azure cloud tools.

• Change modeling in funded portfolios • Daily construction progress analytics • Skilled in Excel, SQL Server, Power BI

Technical Advisor, Scientific California Agriculture **May 2018 - March 2019 (10 months)**

Reviewed business plan with industry leaders formerly at Logitech, Kodak, and Microsoft. Authored custom embedded software for autonomous drone controls and stabilization using FrSky telemetry, PixHawk 4, and partner-designed ESCs.

Firmware Engineer, Stellar Exploration, Inc. **January - July 2018 (7 months)**

Designed embedded systems capable of performing intelligent tasks for aerial and space applications. Microcontrollers, peripheral circuitry, and scientific processing tools including IPython, NumPy, and SciPy were used throughout.

• Powerless RFID CubeSat payload • Counter-UAS IR and FMCW radar • Field-oriented pump automated controls

Program Management Intern, Microsoft Corporation **June - September 2017 (4 months)**

Removed a two month delay in key stability metrics for Cortana speech recognition. Collaborated with product owners for Xbox, Windows, and VR/AR to measure dictation commanding. • Hackathon winner: precision agriculture

Software Design Engineer I, Microsoft Corporation **December 2016 - May 2017 (6 months)**

Enabled complex syntax for parameterized Cortana speech services learning and evaluation, increasing recognition accuracy. Convenient interface features and intelligent suggestions improved user experience for crowdsourced workers.

Research Intern, Microsoft Corporation **June - September 2016 (4 months)**

Architected a modular speech transcription framework to provide intelligent suggestions to crowdsourced end users.

• XML configuration and validation • Fuzzy match dynamic programming • Hackathon winner: speech enablement

Education

M.S. Business Analytics *(incoming)*, University of California, Irvine **September 2022 - June 2023 (1 year)**

"Prepares you in predictive forecasting, descriptive data mining and business insights, and prescriptive optimization and simulation methods, giving you the tools to recognize trends and patterns needed to execute creative business strategies."

M.S. Electrical Engineering Courseware, California Polytechnic State University **January - June 2018 (2 quarters)**

Applied concepts in computational intelligence to stream Twitter API content and perform sentiment analysis with Tensorflow.

B.S. Computer Engineering, California Polytechnic State University **September 2014 - June 2018 (4 years)**

Authored *Considerations for Human-Computer Interaction in the Development of Autonomous Robotic Systems*, a research design report under Dr. John Oliver addressing anthropomorphism, cognitive resource theory, and value-centered design.

Student Research Assistant, California Polytechnic State University **December 2017 - May 2018 (2 quarters)**

Researched automotive security under Dr. Bruce DeBruhl to test location security flaws in the LTE protocol and implement a multi-threaded, mobile test system. Combined BladeRF FPGA SDR with asynchronous Python to identify and monitor clients.

Technical Team Lead, HackingEDU **December 2015 - June 2017 (1 year, 6 months)**

Managed design and implementation of responsive web and Android applications for event use. API World representative.