

CALE WORKMAN

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Computer engineer with 5+ years of python experience building automation tools and systems. Full-stack web developer with 2+ years of experience in ReactJS, Swift, HTML, and CSS. Experienced working in an Agile environment with object-oriented programming, test-driven development, and MVC design patterns.

WORK EXPERIENCE

R&D Engineer 2019 - present
Samtec

- Developed Python 3 tools to interface with Ansys electromagnetic design software and Keysight oscilloscopes/network analyzers.
- Created a Python tool to automate the PCB stackup design, validation, and documentation process, resulting in faster test board prototyping and more accurate documentation.
- Wrote various Python scripts to manage the group Ansys materials database.
- Led the transition to a Git-based versioning system using VSTS.

Technologies: Python, Git, PyCharm, VSTS

Software Developer 2018
Cognito Forms

- Managed Tier 3 customer support with Zendesk, debugging and root-causing software issues.
- Developed software features with C#/.NET using MVC design patterns.

Technologies: C#, .NET, Azure, HTML, CSS, JavaScript, jQuery, JSON, VSCode, VSTS, Git, Trello, Zendesk

Electrical Validation Engineer 2014 - 2018
Intel

- Developed SI electrical validation methods for server microprocessors and DDR3/4 memory technologies.
- Created python automation scripts for hardware validation, data collection, and data processing.
- Performed data analysis using JMP and MATLAB script.

Technologies: Python, MATLAB, JMP

Graduate Assistant 2013 - 2015
University of South Carolina

- Taught courses in Electromagnetics and project design.
- Named outstanding Teaching Assistant for 2013 and 2014.

EDUCATION

Ph.D. Computer Science Expected 2024
University of South Carolina

M.E. Electrical Engineering, 3.650 GPA 2016
University of South Carolina

B.S. Electrical Engineering, Magna Cum Laude 2012
University of South Carolina

PORTFOLIO

Barley

www.barleyapp.co

- Developed an iOS app for bar and restaurant inventory management.
- Released on the Apple store in Sept 2017 and being used across NC.

Technologies: Swift, XCode, Python, CloudKit, JSON, RESTful API, iOS, Zeplin

In the Money App

www.inthemoney.app

- Developed a responsive single-page React app to plot profit-loss diagrams for stock option orders using real-time Yahoo finance data.
- Hosted on AWS

Technologies: React, Jest, HTML, CSS, JavaScript, JSON, AWS, RESTful API, Google Analytics

Personal Website

www.caleworkman.com

- Developed a responsive single-page React app to serve as a personal online portfolio and resume.

Technologies: React, HTML, CSS, JavaScript, AWS, REST APIs, Google Analytics