CALE WORKMAN

CaleWorkman@gmail.com | 843-513-7391 | www.caleworkman.com

Software 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 Electronics Design Suite and Keysight equipment.
- Created a Python tool to automate the PCB design, validation, and documentation process; resulted in faster board prototyping and more accurate documentation across the SI group.
- Wrote Python scripts to manage the Ansys materials database.
- Led the transition to a Git-based versioning system using VSTS.

Technologies: Python 3, Git, VSTS

Software Developer   2018
Cognito Forms

- Managed Tier 3 customer support, debugged complex customer forms, and root-caused bugs.
- Developed software features with C#/.NET using MVC design patterns.

Technologies: C#, .NET, HTML5, CSS3, JavaScript, jQuery, VSTS, Azure, Git, Trello, Zendesk

Electrical Validation Engineer   2014 - 2018
Intel

- Developed signal integrity electrical validation methods for server microprocessors and DDR3/4 memory technologies.
- Created automation software with Python for hardware validation, data collection, and data processing.
- Performed data analysis using JMP and MATLAB scripting.

Technologies: Python 2/3, 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 available on the Apple store.
- Utilized third-party API's (Phaxio, Mailgun) to submit orders via fax or email.
- Built a Python 3 backend to keep each state-wide catalog up to date.

Technologies: Swift, XCode, Python 3, CloudKit, REST, iOS, Zeplin

In the Money App
www.inthemoney.app

- Developed a responsive mobile-first single-page React app to plot profit-loss diagrams for stock option orders using real-time finance data.
- Used AWS Amplify used for CI and API Gateway to serve a RESTful API.

Technologies: React, HTML5, CSS3, JavaScript, Jest, AWS, Express, NodeJS

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