Bill Kolodzey

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SKILLS

Python, C/C++, Matlab, Ruby, JavaScript, AWS, PostgreSQL, machine learning methods

EXPERIENCE

Software Engineer

Arcadia   4/2022–6/2023

- Deployed and maintained web scrapers to collect energy utility data from utility websites using Python with Beautiful Soup, Requests, and undocumented APIs.
- Wrote command-line interface tool to simplify common developer commands. Increased developer efficiency and decreased testing friction.
- Rebuilt web scraper for electric utility site after a new-site launch. Restored access to 6,350 customer accounts.
- Implemented feature to accommodate site downtime, which gracefully handled retries and failures.

Academic Teaching

Clemson University   1/2014–12/2019

- Full teaching responsibilities: lecture, develop assessments, organize TAs/graders, run review sessions, and hold office hours.
- Courses including Introduction to Programming and Basic Electrical Engineering.
- Class sizes of up to 170 students.
- Led the design and implementation of a popular final project where students built and programmed robots to follow an arbitrary sequence of colored paths on a large track.

Hollings Scholarship Internship

National Oceanic and Atmospheric Administration   5/2008–7/2008

- Led a survey to determine aerosol content in air across the Front Range, Colorado.
- Developed software in Excel and Perl to analyze the ozone-depleting gas levels in air samples.
- Awarded for the poster presentation of my group's methods and findings.

EDUCATION

PhD, Computer Engineering   5/2020
Electrical and Computer Engineering Dept. Clemson University. Clemson, SC.
Dissertation: *Flexible Congestion Management for Error Reduction in Wireless Sensor Networks*

BSE, Engineering Physics   5/2009
Nuclear Engineering & Radiological Sciences Dept. University of Michigan. Ann Arbor, MI.

ACTIVITIES

Collegiate fencing, Magic:The Gathering card game, Emag!ne Youth Outreach program
Personal projects: tournament software, sudoku puzzle generator, Matlab graph library