Alex Buechele

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SKILLS

Languages: JavaScript, C/C++, Python, SQL, HTML5, CSS3
Tools and Frameworks: Node, React, Express, Django, Bootstrap, jQuery, AJAX, PostgreSQL, MongoDB, Docker, NGINX, AWS (EC2, Lambda, S3), Git

PERSONAL PROJECTS

Personal site (JavaScript)
- Node/Express backend with traffic logs and visitor messages saved to a database
- Powered by AWS - Runs on an EC2 instance in a S3 bucket, PostgreSQL database

Accountability raspberry pi tool (Python)
- Lights up different colored LEDs corresponding to goals/to-dos not yet completed
- Makes calls to external APIs to update state

Campsite game/puzzle (React)
- Player attempts to pair resources on a 2D grid optimally given certain constraints

Stock trading simulator (Python)
- Used an external API to fetch current stock prices
- Users could "buy" and "sell" stocks with imaginary currency and view their transaction history
- Powered by Flask, Bootstrap, utilized a SQLite database

Mentor-mentee pairing app (Python)
- Served as a tool to pair students with matching study goals
- Built on django, with a PostgreSQL database
- Followed test-driven development principles using Pipenv, Pytest

WORK EXPERIENCE

Self-study and Freelance Web Development   Seattle, WA
Self   Sept 2017 – Present
- Created web pages for small businesses and individuals
- Continued to pursue independent study of CS fundamentals as well as practical web development skills

Lab Technician   Bellevue, WA
PMO Care   July 2016 – August 2017
- Performed urinalysis in support of a drug addiction treatment program
- Responsible for QC testing, calibration and lab documentation according to CLIA standards

Medical Assistant   Seattle, WA
Seattle Healing Arts Clinic   Oct 2015 – June 2016
- Managed communications with patients and other health care providers
- Organized electronic medical records

Graduate Researcher, Organic Chemistry   Houston, TX
University of Houston, Gilbertson Group   Aug 2012 – July 2014
- Conducted research in the field of organometallic catalysis and organic synthesis
- Taught general chemistry laboratory to undergraduate students

EDUCATION

University of Houston
Bachelor of Science, *Summa Cum Laude*
Major: Chemistry, Minor: Mathematics