Peter Mulard

petermulard.me

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Education

City College of San Francisco   *San Francisco, CA*   **Aug 2019 – May 2020**

- Associate of Science in Computer Science, 4.0 GPA

Gannon University   *Erie, PA*   **Aug 2012 – May 2016**

- Bachelor of Science in Mechanical Engineering
- Lead Writing and Research Tutor, Department of Writing and Research
    - Mentored 5-10 tutors and served as the lead resource for 100-200 students per semester
    - Developed and taught tutoring strategies, led tutoring efforts for graduate STEM students

Experience

JBT Corp. - Software Engineer   *San Francisco, CA*   **Feb 2021 – present**

- Containerized various applications with Docker; deploying and maintaining them in Microsoft Azure
- Administered linux applications on Azure virtual machines; connected third party APIs with Java

c0d3.com - Software Engineer | *Open Source*   *San Francisco, CA*   **Oct 2020 – present**

- Work full-stack on applications that teach end-to-end javascript fundamentals for hundreds of students
- Implemented feedback UI that tracks and displays users' progress as they complete projects
- Maintain and improve central frontend code for displaying user profiles and project submissions/reviews
- Mentor students as they progress through the curriculum with resources, feedback and guidance

Commissioning Agents Inc. - Validation Engineer   *San Francisco, CA*   **Jul 2019 – Sep 2020**

- Led a team of five engineers to increase database coverage of several thousand HVAC and electrical devices
- Streamlined the process of creating new components for database entry by utilizing SQL scripts in Excel

Mapal Inc. - Mechanical Engineer   *Detroit, MI*   **Jan 2017 – Apr 2018**

- Wrote programs utilizing Visual Basic and Excel to more precisely calculate the cost of new products
    - Increased precision of true manufacturing cost by 35% and eliminated sale price discrepancies for customers
- Programmed a heat transfer simulation with Matlab to visualize the effects of various cutting tool parameters

Industrial Sales & Manufacturing Inc. - Engineering Tech.   *Erie, PA*   **Oct 2015 – Jan 2017**

- Ran fluid dynamics simulations with Matlab to estimate the effectiveness of various machine coolants
- Enhanced raw material inventory data with a custom Python program

Projects

Algorithm Visualizer
Interactive web-app displaying sorting algorithms in real time

- Designed a React UX and hosted on a raspberry pi web server

NBA Data Visualization
Data tool for scraping and analyzing NBA statistics from the web

- Developed data analysis of player tendencies using a heatmap matrix
- Efficiently scrapes only when needed, to avoid IP bans

Moon Phase Calculator
Web-based tool for calculating and visualizing moon properties

- Created a React UX with various moon animations

More projects and information available at github.com/pmulard

Skills

Languages

Javascript, Java, Python

Technologies

React, Node.js, Express, Redux, MongoDB

Cloud/DevOps

Bash, Linux, Docker, Azure, Github

UI/UX

HTML/CSS3, Photoshop, Illustrator, After Effects