Daniel Kim

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Programming Skills

Language: Python · C · HTML/CSS · JavaScript · Assembly (x86)

Framework & Libraries: Flask · Node.js/Express.js · React · Jinja2

Database: MySQL · MongoDB

Developer Tool: PyCharm · Vim · Visual Studio · Git · GitHub

Experience

Philips – *Quality Engineer*   April 2020 – November 2023

- Led software testing for 10 applications and implemented testing automation, achieving an average of 25% faster completion than scheduled
- Managed software defect board for 80+ product issues, and reduced post-release customer complaints by 15%
- Investigated 6+ product non-conformances, devising corrective action plans ensuring 100% device uptime

Medtronic – *Associate Systems Engineer*   July 2018 – December 2019

- Reduced field troubleshooting timeline by 30% by developing software to acquire device usage data at customer site instead of returning device
- Delivered product prototype using computer vision that improved user accuracy by 10% in clinical tasks to improve patient safety
- Conducted cybersecurity threat assessments, mitigating vulnerabilities to bolster product integrity and user safety

Medtronic – *Associate Software Quality Engineer*   July 2016 – July 2018

- Engineered database scraper to automate retrieval of over 1,000 software installation data and reduced defect investigation timeline by 50%
- Conducted comprehensive software risk management for 8 new product development
- Oversaw training for cross-functional team on software development process and risk management

Education

Oregon State University – Bachelor of Science Computer Science   June 2022 – June 2024

University of Denver – Bachelor of Science Electrical Engineering   January 2013 – June 2016

Software Projects

Timeless Tales – Python, Flask, React, Axios, HTML
- Developed backend for a choose-your-own-adventure story telling game using Python and Flask (backend), React and Axios (frontend) and leveraged OpenAI's (ChatGPT) API to generate dynamic story content and images

Gym Court Reservation – Python, Flask, Jinja2, mySQL
- Developed full stack web-based database management system using Python, Flask (Jinja2), integrated with SQL to implement CRUD functionalities to simulate an employee-facing gym court reservation system

Mancala Game – Python
- Developed Python-based text version of the Mancala game, allowing two players to play the turn-based strategy game with proper score tracking and rule enforcement