Donald W. Strong

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Education

Sep 2019 – Jun 2023

Western Washington University | *Bellingham, WA*

Master of Science in Computer Science
- Coursework: Advanced Algorithm Analysis, ICT Solutions for the Social Good, Cloud Computing Fundamentals (AWS), Accessible Computing.

Bachelor of Science in Computer Science
- Coursework: Algorithms Analysis I & II, Data Structures, Operating Systems, Computer Networks, Android App Development.

Work Experience

Aug 2022 – Present

Tech & Data Specialist | *Western Washington University, Bellingham, WA*
- Managed account creation and user management processes in an Azure environment, ensuring seamless onboarding and access to essential systems and resources for WCEL personnel.
- Designed and implemented a user-friendly registration and check-in portal for new and existing patients as an Azure Web application. Leveraged HTML/CSS, Node.js, Flask, and MongoDB to deliver a seamless user experience and optimize data management processes.
- Automated data flow between CRM systems, leveraging Python scripts to streamline processes, improve data integrity, and enhance overall system efficiency.

Sep 2021 – Dec 2023

Database Systems Teaching Assistant | *Western Washington University, Bellingham, WA*
- Help lead instructor reinforce understanding of database systems concepts, including relational database design, SQL, and functional dependency for undergraduate computer science students.
- Assisted students with creating detailed documentation of system requirements, development of quality code, and use of effective debugging and testing procedures.
- Contributed to a 96.5% pass rate (138/143), helped students in showcasing proficiency in SDLC concepts and database systems principles.

Jan 2015 – May 2018

Cryptologic Technician First Class Petty Officer | *U.S. Navy, Kunia, HI*
- Streamline day-to-day operations for Intelligence Community customers by automating workflows, performed data analysis, and developed signature detection and data visualization solutions using Python.
- Managed 2 SIGINT databases ensuring proper identification of technologies and community-wide dissemination of intelligence.

Projects

Deadwood Board Game | *github.com/dwstrong5/Deadwood*
- Developed GUI-based version of Deadwood board game using Java, demonstrating knowledge of SDLC by authoring software requirements specifications (SRS) and UML class diagrams.
- Demonstrated proper implementation of Model-View-Controller design pattern and Test-driven Development ensuring code quality and adherence to SRS.

Project Gallery | *github.com/dwstrong5/project-gallery*
- Used React JS and Bootstrap for front-end development of a gallery-style recruitment tool to assist computer science students in showcasing projects and technical recruiters in filling open positions with ideal candidates.

Skills

Languages & Libraries: C, Java, Python, JavaScript, Kotlin, GoLang.
Frameworks: React, Vue.js, Express.js, Flask.
Databases: MySQL, MongoDB, DynamoDB.
Other: Git, GitHub, AWS, Azure.