SAMUEL UNDERWOOD

SOFTWARE ENGINEER

CONTACT

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/Underwood/

PROGRAMMING

Languages:

C++, CSS, Django, Docker, Git,
HTML, Java, MySQL, Python

Dev Environment/Tools:

Eclipse IDE, GitHub, GitLab, Linux,
Mac OS, Microsoft Office Suite,
Windows

SKILLS

Customer Service/Interaction

Drafting/CAD Modeling

Emergency Roadside/Towing
Assistance

PROFILE

Recent Computer Science graduate seeking a challenging entry-level software engineering position to expand skills in the design and development of software systems.

EDUCATION

Bachelor's in Computer Science

Old Dominion University, January 2015 – December 2020

Relevant Courses: Professional Workforce Development I & II (CS 410/CS 411); Operating Systems (CS 471); Computational Methods & Software (CS 417); Cybersecurity Fundamentals (CS 462); Cryptography for Cybersecurity (CS 463); Networked Systems Security (CS 464); Intro to Software Engineering (CS 350)

Software Development Projects:

◊ Professional Workforce Development: Kiddy-Up - Two-semester senior capstone project course involving concept definition through design and prototype development of a real-world software product. Kiddy-Up is a web-based application that automates parental management daily routines and tasks using a combination of natural language processing and a child-friendly user interface.
  • Utilized Docker, Python, MySQL, nginx, and Django.
  • Maintained version control with Git through GitLab.
  • Six agile sprints over thirteen weeks with a team of six peers.

◊ Computational Methods & Software: Piecewise Interpolation – Senior course involving algorithms and software for fundamental problems in scientific computing. The Piecewise Interpolation project accepted an input filename as the first command line argument to process four temperature columns independently, where readings are taken every 30 seconds, and wrote output to text files (one file per CPU core) for a piecewise linear interpolation and global linear least squares approximation.
  • Written in C++ with OOP style

◊ Operating Systems: Multithreading – Senior course involving operating system structures, multiprogramming and multiprocessing, process management, memory and other resource management, storage management, I/O systems, distributed systems, and protection and security.
  • Developed basic memory management and multithreading programs in C++

Research:

◊ Cryptography for Cybersecurity: Lightweight Cryptography Research Paper
  • How, when, and where future lightweight cryptography practices can be implemented

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WORK EXPERIENCE

Positions held while pursuing undergraduate degree:

Roadside Technician

AAA; AtoB Towing and Recovery / 2015– 2019; 2019 – Present

- Assist stranded motorists by diagnosing and repairing minor mechanical problems, unlocking doors for customers who have locked their keys in their car, and emergency roadside repairs such as changing tires and installing batteries.
- Provide towing services for disabled vehicles.
- Abide by all Federal, State, and Municipal laws, rules, and ordinances and maintain a clean driving record.

Customer Service Associate

Fred Meyer Jewelers / 2015 – 2018

- Listened to customers' comments to know exactly what their requirements were to compare against available sets for offer based on stones, cuts, and setting types.
- Ensured that all documentation concerning a piece or set of jewelry was included with purchase.
- Educated customers about guarantees and warrantees of sold items.
- Mailed thank you notes to customers to promote loyalty retention, and also to inform customers about new product arrival regularly.
- Organized and ensured the security of product window displays.

AutoCAD Technician

Dominion Soil & Science / 2011 – 2013

- Worked with a design team and individually on CAD projects.
- Met with Engineers, Draftsmen, and Designers to review blueprints and design drawings.
- Input design specifications into the CAD software for creation of surface and solid CAD models according to client specifications; reviewing with the client and making minor adjustments as necessary.
- Conducted final model rendering, delivered the final product, and completed job reports.

VOLUNTEER EXPERIENCE

SkillsUSA Member

SkillsUSA / 2009 – 2013

As a SkillsUSA member, I volunteered for fundraisers and community events, judged and mentored SkillsUSA members, competed in annual drafting completions, and designed structural house plans that was selected to be constructed and sold by SkillsUSA.