Elizabeth Emerson

Software Engineer Profile

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Highly motivated and detail-oriented software development student with a strong foundation in Java programming, software construction, and web development. Pursuing a Bachelor of Science in Information Technology with a specialization in Software Development and a concentration in Web Development from Capella University. Skilled in developing robust and maintainable code through object-oriented programming principles and experience in creating user-friendly graphical interfaces using JavaFX. Proven ability to coordinate with APIs, manage data persistence through database connections, and develop comprehensive software solutions through systematic coding, debugging, and testing practices. Demonstrates excellent problem-solving abilities, strong verbal and written communication skills, flexibility in adapting to new challenges, and effective time management.

Areas of Expertise

- Software Engineering
- Java Programming
- API Integration
- Database Management
- Coding & Debugging
- Software Testing
- Web Development
- Problem-Solving
- Agile Methodologies

Technical Proficiencies

Java, JavaScript, Windows, MacOS, Linux, MS Office Suite (Word, Excel, PowerPoint), Agile Scrum Methodology, MySQL

Education

Bachelor of Science in Information Technology, specialization in Software Development and concentration in Web Development
Capella University, Online, Expected Graduation December 2025

Honors and Awards: Dean's List all quarters, with a 3.976 GPA / Honors Pathway Certification

Relevant Coursework & Projects

Java Application Development

- Developed object-oriented programming skills in Java, resulting in the creation of robust and maintainable code.
- Built applications utilizing JavaFX for GUI development, enhancing user interaction and experience.
- Partnered with APIs to manage text files and connect to Internet services, increasing application functionality.

Software Construction

- Created functional software through coding, debugging, and testing, resulting in high-quality, error-free applications.
- Engaged in software construction tasks focused on minimizing complexity and accommodating change.
- Built and verified applications through systematic construction practices to optimize performance.

Intermediate Java Programming

- Enhanced programming capabilities with advanced object-oriented concepts like inheritance, polymorphism, interfaces, and abstract classes, resulting in more efficient and scalable code.
- Established graphical user interfaces (GUIs) using data structures, such as lists, stacks, and queues, improving user navigation.

Introduction to Programming with Java

- Analyzed, designed, coded, tested, debugged, and evaluated Java programs, leading to a thorough understanding of the software development lifecycle.

Experience Highlights

Bartender, Hugo's Restaurant, West Brownsville, PA   2013 – Present

Deliver exceptional beverage service to 30-50 customers nightly at a bustling restaurant while maintaining composure and a positive demeanor. Operate POS systems and process transactions with proficiency. Cultivate strong rapport with guests and collaborate seamlessly with team members to optimize the dining experience. Maintain the cleanliness and organization of the bar area, retaining a welcoming atmosphere for patrons.

- Recognized for outstanding customer service and ability to easily manage high-volume patronage.
- Efficiently handled cash and credit card transactions, contributing to the restaurant's financial accuracy.
- Developed a reputation for prompt and courteous service, resulting in repeat customer visits.