Brandon Jacobs

23 Capri Dr. Chestnut Ridge, NY 10977 | 845-300-9243 | Jacobs.Brandon918@gmail.com

Summary

Resilient and adaptable Software Engineer with a solid foundation in computer science and software development, earned through the pursuit of a B.S. in Software Engineering. While my professional experience is still in its early stages, I have developed proficiency in a variety of programming languages and frameworks, including Java, Python, JavaScript, and C++. My background as a first responder has instilled in me the values of perseverance, quick decision-making, and the ability to stay calm under pressure—skills I apply daily to solve complex challenges in software development. Eager to contribute my technical expertise and problem-solving abilities to build high-impact, scalable systems.

Education

ASSOCIATE DEGREE | 2014 | ROCKLAND COMMUNITY COLLEGE
· Major: Fire Science

BACHELOR OF SCIENCE | 2025 | SOUTHERN NEW HAMPSHIRE UNIVERSITY
· Major: Software Engineering

Experience

STUDENT | SNHU | 06/2021 – 4/2025
· Developed and implemented software solutions through hands-on coursework, working with programming languages such as Java, Python, and C++ to create functional applications.
· Built and maintained databases using SQL and NoSQL technologies, ensuring data integrity and optimizing queries for performance.
· Collaborated in team-based projects, following Agile methodologies to design, develop, test, and deploy software applications within tight deadlines.
· Worked with web development frameworks such as React, Angular, Node.js, Django and Spring Boot to create user-friendly, responsive websites and applications.
· Utilized version control systems such as Git to manage codebases and collaborate effectively with peers on group projects.
· Implemented algorithms and data structures to solve complex problems, ensuring code efficiency and scalability.
· Participated in code reviews and provided feedback on coding standards, practices, and optimization strategies.
· Conducted unit and integration testing to ensure software reliability and identify and resolve bugs prior to deployment.
· Engaged in software design and architecture discussions, contributing ideas for building scalable, maintainable, and high-performance systems.
· Completed personal software development projects, demonstrating initiative and the ability to apply classroom knowledge to real-world scenarios.

COMMAND CENTER OPERATOR | MTA METRO-NORTH RAILROAD | 10/2021 – PRESENT
· Respond promptly to fire, EMS, and diverse emergencies within Grand Central Terminal/Grand Central Madison, associated buildings and railways.
· Utilized Microsoft Power Automate to streamline fire command processes by automating routine communications, including sending timely emails to stakeholders improving efficiency in stakeholder communication during critical operations
· Foster seamless coordination with MNR units and external agencies during incidents, ensuring the safe and efficient resolution of emergencies concerning MNR facilities, personnel, and patrons.
· Spearhead MNR's fire prevention and safety initiatives by conducting meticulous inspections, leading drills, performing assessments, and delivering comprehensive education and training to employees, tenants, and the public.
· Collaborate with the Safety department to support various projects and programs aimed at bolstering emergency management, fire life safety, and broader Office of System Safety objectives as needed.

IT ADMINISTRATOR | SPRING VALLEY FIRE DEPARTMENT | 09/2009 – 03/2024
· Manage and maintain IT infrastructure, including servers, workstations, and networking equipment to ensure seamless operations.
· Install, configure, and troubleshoot software and hardware to meet the needs of employees and ensure compatibility with business systems.
· Administer user accounts and permissions, including creating, modifying, and disabling accounts on internal systems and cloud platforms.
· Monitor network performance and resolve connectivity issues to maintain reliable access to business applications and online resources.
· Ensure data security by implementing firewalls, antivirus software, and encryption tools, and conducting regular security audits.
· Support daily operations by providing technical support to staff, resolving issues with hardware, software, and network systems promptly.
· Backup and restore critical business data, ensuring the integrity of data and systems through regular backups and disaster recovery planning.
· Maintain and update software inventory to ensure the latest patches and updates are applied to business systems.
· Manage and configure cloud services (such as email, file storage, and collaboration tools) to enhance business productivity and communication.
· Train employees on IT best practices and security protocols to foster a secure and efficient working environment.

EMT CREW CHIEF | NANUET EMS | 06/2015 - PRESENT
· Oversaw patient care, crew member safety, and made critical life-saving decisions during day-to-day operations, ensuring the highest standard of care and safety protocols were consistently upheld.
· Managed patient care both in the field and during transit, proficiently conducting standard testing and administering necessary medications to optimize patient outcomes.
· Conducted thorough assessments of patients' medical conditions, continuously monitoring vital signs to deliver timely and appropriate medical interventions.

- Demonstrated sound and strategic decision-making abilities in high-pressure, emergent situations, effectively navigating complex scenarios to ensure optimal patient care.
- Established and maintained strong professional relationships with fellow medical practitioners, including local hospital staff, fostering seamless collaboration and enhancing the overall quality and efficiency of patient care.
- Facilitated seamless coordination of mutual aid resources with external agencies such as fire, police, and other EMS units during Mass Casualty Incidents (MCI), ensuring swift and coordinated responses to emergency situations.

Skills & Abilities

Proficient in Python, C++, JavaScript

Familiar with front-end development using React

Understanding of software development principles and agile methodologies

Strong problem-solving and analytical thinking

Effective communication and collaboration in technical teams

Ability to perform well under pressure and meet tight deadlines

Leadership and experience in cross-functional team coordination

Budget planning and project resource management

Knowledgeable in emergency management systems and protocols

Proficient in Microsoft Office Suite

Comfortable working across Windows, macOS, and Linux environments