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ALEX BASCEVAN

Software Developer

PROFESSIONAL SUMMARY

Software Developer with hands-on experience in full-stack and network-oriented systems development. Proficient in C#, Python, Spring Boot, ASP.NET Core, and React, with a strong foundation in building secure RESTful APIs, cloud-backed data pipelines, and systems-level detection solutions. Demonstrates working knowledge of cybersecurity principles, penetration testing, DevOps practices, and big data technologies including Spark and Hive. Recognized as a fast learner who delivers clean, maintainable code and is motivated to grow into production-focused engineering roles supporting scalable and secure platforms.

SKILLS

Spring Boot, ASP.NET Core, React, Python, C++, C, C#, PHP, HTML, CSS, JavaScript, TypeScript, Swift UI, Kotlin, API Design, UI/UX Design, Machine Learning, System Design, Integration Testing, Full Stack Development, Database Administration, Big Data, Hadoop, Spark, Hive, Kafka, Zookeeper, MongoDB, SQL, Agile, DevOps, Git, Jenkins, Docker, Kubernetes, Cybersecurity, Network Security, Penetration Testing, Internet of Things, Network Protocols.

EXPERIENCE

ROGUE EYE – CAPSTONE PROJECT
Placed 3rd at Sheridan Capstone Showcase

- Designed and developed a rogue wireless access point detection system using Raspberry Pi devices running custom Python scanning scripts built with Scapy for packet capture and analysis.
- Implemented packet interception, wireless traffic analysis, and structured data extraction, enabling automated detection of unauthorized network devices.
- Engineered secure data transfer pipelines to AWS S3 for centralized, scalable cloud storage and downstream analysis.
- Built a full-stack monitoring and visualization platform consisting of a Flask-based API layer, a Spring Boot backend service, and an Angular dashboard to support real-time threat monitoring and reporting.
- Architected the system for scalability and distributed deployment, allowing multiple low-cost sensor nodes to operate concurrently across network environments.
- Applied secure coding practices, authentication controls, and fault-tolerant design to ensure reliability in distributed and resource-constrained environments.

MOOSIC – FULL-STACK WEB APPLICATION

- Developed a full-stack music-sharing and playlist management application using ASP.NET Core integrated with the Spotify Web API.
- Implemented secure user authentication and authorization, along with features for playlist creation, song search, and external media integration.
- Designed and exposed RESTful API endpoints to support reliable backend operations and seamless communication with frontend components.
- Built responsive and user-friendly UI components to ensure smooth user experience across devices.
- Applied best practices in API integration, error handling, and data validation to improve application stability and performance.

CYBERSECURITY & PENTESTING PRACTICE

Gained hands-on penetration testing experience while pursuing the CPTS certification; developed strong proficiency in Unix/Linux environments, scripting, system administration, and security tooling, practiced exploitation techniques across networks, web, and Active Directory Environments.

SOFTWARE DEVELOPMENT PROJECTS
Sheridan College

- Designed and implemented scalable end-to-end network architectures with routing, switching, IP addressing, and security controls.
- Developed secure full-stack applications using Java Spring Boot (REST/SOAP APIs, Spring Security, Thymeleaf) and ASP.NET Core integrated with React frontends.
- Implemented role-based access control, input validation, and secure data handling aligned with cybersecurity best practices.
- Deployed and managed applications on AWS, gaining experience with cloud infrastructure, configuration, and deployment pipelines.
- Applied object-oriented programming, design patterns, and modular architecture to improve maintainability and scalability.
- Used Git for version control and collaborated in Agile, project-based team environments.
- Performed testing, debugging, and troubleshooting across frontend, backend, and network layers.

EDUCATION

ASSOCIATE'S DEGREE IN SOFTWARE DEVELOPMENT & NETWORK ENGINEERING — Jan 2023 - Dec 2025
Sheridan College — *Oakville*

Completed an Associate's degree with a strong foundation in software engineering, network infrastructure, and system design. Gained hands-on experience through academic and team-based projects involving full-stack web application development, cloud deployment, database design, and cybersecurity best practices. Developed practical skills in programming, networking, version control, and troubleshooting within structured, project-driven environments.

CERTIFICATIONS

CERTIFIED PENETRATION TESTING SPECIALIST (CPTS) — Oct 2024 - Present
Hack the Box

CYBERSECURITY CAREER CERTIFICATE — May 2024 - Aug 2024
Google

DOCKER FOUNDATIONS PROFESSIONAL CERTIFICATE — May 2024
Docker Inc & LinkedIn

CAREER ESSENTIAL IN GITHUB PROFESSIONAL CERTIFICATE — Apr 2024
GitHub & LinkedIn