Patrick Jaroszewski

SOFTWARE ENGINEER · DEVOPS ENGINEER

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Summary

Recent Computer Science graduate with hands-on experience in full-stack development, infrastructure automation, and systems administration. Operates an active homelab for continuous learning in containerization, CI/CD pipelines, and infrastructure-as-code. Proven ability to reduce costs and automate workflows through practical software solutions, with strong foundation in modern web technologies and DevOps practices.

Work Experience

Freelancer
Remote

SOFTWARE DEVELOPER & SYSTEM ADMINISTRATOR
Dec. 2024 - Present

- Built a custom booking and billing application using SvelteJS, Python and PosgreSQL that automated manual time-tracking processes, reducing staff labor by 10 hours weekly while enabling dynamic resource management.
- Redesigned and migrated a legacy company website to a modern static site using AstroJS, eliminating server and database dependencies and reducing annual hosting costs by 90% while improving page load times, search engine positioning, and security.
- Configured and deployed a network-attached storage (NAS) solution with multiple integrated services, establishing centralized data storage, automated backups, and file sharing systems to improve operational efficiency and data security.

Trillium Health Partners
Mississauga, Ontario

RESEARCH ANALYST (COOP)
Dec. 2018 - Jun. 2019

- Performed data analysis and created visualizations in Excel to support business reporting and decision-making processes.
- Compiled research findings and prepared summary reports for team review and internal stakeholders.
- Collaborated with cross-functional teams on various projects, gaining exposure to development operations and workflows.

Education

University of Guelph
Guelph, Ontario

BACHELOR OF COMPUTING IN COMPUTER SCIENCE | **GPA: 4.0**
Sep. 2019 - May. 2024

- Awarded the R.A Fisher Scholarship for having the highest statistics average (second-year).
- Awarded the Weiner Mathematical Scholarship for having the highest mathematics average (first-year).
- Placed on the Dean's List in each semester.
- Completed a Mathematics minor with a 4.0 GPA.
- Relevant Courses: Data Structures, Algorithms, Software Engineering, Cloud Computing, Computer Networks, and Systems Programming.

Projects

Social Media Analytics Platform

DEVOPS ENGINEER | NODEJS, REACT, MONGODB, GITLAB

- Collaborated in an Agile team using Scrum methodology with daily standups, sprint planning, and regular code reviews.
- Implemented GitLab CI/CD pipelines with automated linting, testing, staging, and production deployment phases.
- Developed a containerized microservice architecture using Docker and orchestrated deployment on University infrastructure with Kubernetes.
- Achieved 95% test coverage using various testing frameworks, preventing defects from reaching production.

Homelab

SYSTEM AND NETWORK ADMINISTRATOR | LINUX, DOCKER, PROXMOX, ANSIBLE

- Designed and maintained a comprehensive homelab environment over 3+ years, demonstrating self-directed learning and technical growth.
- Automated infrastructure provisioning using Terraform and Ansible, reducing setup time for new services.
- Established complete network infrastructure including DNS and DHCP servers, Nginx with HTTPS, and implemented robust security measures with VLANs, firewalls, and VPNs.
- Implemented monitoring using Grafana and InfluxDB, enabling real-time system performance visualization, and efficient troubleshooting.
- Created detailed documentation for all systems and procedures, applying industry best practices for knowledge management.

Technical Skills

LANGUAGES

- Python, TypeScript/JavaScript, HTML/CSS, C, Bash, SQL, Java

TOOLS

- Linux, Git, Docker, Ansible, PostgreSQL, MongoDB, Proxmox

Certifications

- Cisco Certified Network Associate (CCNA) (2025-2028)