

David Bern

Jr. Software Engineer
Northwest Indiana

davidbern.com
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Skills

Web Backend: Python, Flask, SQL, SQLAlchemy, and PostgreSQL for web development, web-based APIs, and automating web interactions.

Web Frontend: React, JavaScript, jQuery, HTML, XML, XPath, and CSS for frontend/automation.

DevOps: AWS Services including ECS, Fargate, EC2, RDS, ElastiCache, Load Balancers, and Secrets Manager; CI/CD Continuous Integration/Continuous Delivery using CircleCI and Docker; IaC Infrastructure as Code with Terraform

Client Application Software Development: Proficient in Python, C# .NET, and Java

SDLC: Experience with Agile, Scrum, Kanban, and Test-driven Development methods; Experience using Git, Jira, and Github issue tracking systems within a team setting; Experience creating and using Docker containers

Computer and OS: Windows, Ubuntu Linux; Microsoft Office Suite; Virtualization using VirtualBox and VMWare; In-depth hardware and software knowledge and troubleshooting techniques

Scripted Tool Development: Custom tool development in Python, PHP, Perl, and Bash

Certs: Microsoft Certified DP-900 Azure Data Fundamentals, Agile with Atlassian Jira Coursera Cert

Experience

Live Building Systems

2022 – Present

Jr. Software Engineer

- Integrated REST APIs of third-party devices enabling the company to reduce equipment costs
- Virtualized the web stack with Docker and automated deployment with CircleCI, making releases easier, faster, and containerized.
- Shifted services from EC2 over to a serverless infrastructure on ECS Fargate, eliminating server maintenance and supporting scaled deployments.
- Converted to Infrastructure as Code using Terraform to manage provisioning of both staging and production, simplifying management, unifying deployments, and enabling international deployment.

Prairie State College

Chicago Heights, IL

Lab Technician

Education

Illinois Institute of Technology

Chicago, IL

Bachelor of Science in Biomedical Engineering

Specializing in cell and tissue engineering

- Participated in interdisciplinary classes focused on team-building, problem-solving, and communication
 - Created a prototype website to facilitate collaboration among elementary Chicago Public Schools teachers based on research performed in surveys, focus groups, and interviews
- Key courses:
 - Signal Processing – sampling, Fourier & Laplace transforms, linear systems, filtering

Prairie State College

Chicago Heights, IL

Pre-engineering

Overall GPA: 4.00

Achievements

- Deans List for all five semesters at Prairie State College
- Phi Theta Kappa, Honor Society, member