

DAVID J. BRAUN

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Experienced Software Engineer with expertise in full-stack development, cybersecurity, and DevOps. Proficient in building and automating scalable infrastructure using tools such as Docker, Kubernetes, AWS, and Terraform. Extensive experience in implementing CI/CD pipelines with GitHub Actions, ensuring secure and efficient deployments. Passionate about applying DevOps practices to deliver high-performing, reliable applications.

TECHNICAL SKILLS & AWARDS

Programming Languages: Java, Python, Node, React, Angular, SQL, MySQL, Shell Scripting

Frameworks: Spring, SpringBoot

Cloud Platforms: AWS, Firebase, Openshift

DevOps Tools: Git, CI/CD, GitHub Actions, Ansible, Docker, Kubernetes

Methodologies: Agile, Full-Stack Development

Other Technologies: AVA, SAST, DAST, MongoDB, Database Management, Computer Networking, Linux, Windows, MacOS, Microservices Architecture, Serverless Computing

Languages: Sign-Language (Fluent)

Honors & Awards: AWS Cloud Practitioner (Pearson VUE, 3/28/2024)

PROFESSIONAL EXPERIENCE

People's Connection LLC

New Brighton, MN (Remote)

Founder & Principal Software Engineer

June 2020 – Present

- Created and managed the website for VIFG, a non-profit organization supporting the visually impaired. The site is built with ReactJS, ViteJS, and hosted on AWS.
- Built and deployed the non-profit's website using ReactJS and ViteJS, hosted on AWS Lightsail.
- Implemented Docker containers to streamline both local development and production deployments, and integrated GitHub Actions to automate the CI/CD pipeline for seamless updates.
- Managed DNS and SSL/TLS certificates through AWS Route 53, ensuring secure and reliable access to the website.
- Configured Nginx as a reverse proxy to optimize traffic flow and enable load balancing for high availability.

U.S. Bank

Minneapolis, MN (Remote)

Systems Engineer

November 2024 – February 2025

- Used Postman to test, validate, and troubleshoot REST APIs, improving application integrations and ensuring accuracy of data transactions.
- Collaborated closely with stakeholders, external vendors, and cross-functional teams, resolving technical issues and improving response times.
- Created and maintained detailed technical documentation, enhancing the clarity and efficiency of support processes.

Securian Financial

St. Paul, MN (Remote)

Infrastructure Engineer

November 2022 – March 2024

- Automated infrastructure provisioning and configuration management using Ansible, improving deployment speed and reliability.
- Utilized AWS services (EC2, S3, RDS) to deploy and manage cloud-based applications, significantly improving system performance and availability.
- Managed, updated, and maintained documentation for critical infrastructure applications, including SonarQube, SauceLabs, and GitHub.
- Developed and maintained Ansible playbooks for automated server configuration and application deployment on AWS EC2 instances.
- Designed and implemented Java-based micro-services using Spring and Spring Boot, ensuring scalability and robustness.
- Automated data processing workflows with Python, reducing manual intervention and improving efficiency by 40%.
- Introduced innovative infrastructure solutions and strategies to the team, fostering an environment of continuous improvement.

General Electric Aviation

Cybersecurity Engineer

Cincinnati, OH (Remote)
October 2021 – October 2022

- Remediated vulnerabilities in Java and legacy applications using AVA/SAST/DAST scans
- Strengthened JavaScript-based and React mobile/web applications by remediating vulnerabilities and implementing secure coding practices, ensuring globally accessible, secure, and reliable systems
- Personally developed a more effective method to manually protect against Cross-Site Request Forgery (CSRF) attacks, surpassing existing marketplace solutions
- Collaborated with teams working on AWS services (EC2, S3, Lambda) to ensure secure integration and deployment practices
- Maintained and improved security deliverables across cross-functional teams
- Proactively documented technical information for diverse audiences within GE
- Streamlined resolutions for the correction of potential threats in a timely manner
- Designed, documented, and integrated RESTful APIs for mobile and web-based applications using Swagger/OpenAPI, enhancing cross-functional team collaboration across globally dispersed teams
- Secured API endpoints by implementing OAuth2 and JWT authentication, ensuring robust protection against unauthorized access

Target

Software Engineer

Minneapolis, MN
June 2019 – June 2020

- Architected and supported highly scalable React-driven applications, improving user experience and accessibility for mobile and web-based platforms
- Architected and sustained Kotlin-based microservices for vital internal systems, achieving enhanced performance and scalability
- Diagnosed and fixed issues across 30+ code repositories, ensuring robust and efficient codebases
- Optimized and upgraded over 50 repositories, boosting functionality and performance through strategic code refactoring
- Led cross-functional and globally dispersed teams in an agile development environment, delivering high-quality, responsive mobile and web-based

Graphic Systems LLC

Software Developer

Minneapolis, MN
July 2018 – November 2018

- Upgraded and maintained shipment/inventory center software (storefront and API's)
- Worked with Four51 batch upload
- Optimized inventory management system 70%
- Processed 10+ projects in Adobe InDesign, Illustrator, and Photoshop

Space Physics Internship

Data Analyst

Augsburg – Minneapolis, MN
May 2016 – August 2017

- Edited several IDL programs for further analysis of space events
- Analyzed terabytes of data for several papers, which are published with Co-Authorship Maintained a detail-oriented quality of work over a long period of time and large dataset
- Published works in various professional journals around topics including Ultra-Low-Frequency Wave Investigations

PROJECTS

PORTFOLIO WEBSITE [dbraun.io]

- Developed and deployed a personal portfolio website using HTML/CSS/JS with PHP hosted on GitHub and domain from AWS, showcasing projects, skills, and professional experience.

Custom High-Performance Security Lab PC

- Selected and integrated components (Intel i9-10980XE, 256 GB RAM, dual RTX 3090 GPUs, four NVMe drives) to support GPU-accelerated malware analysis and large-scale Burp-Suite scans.
- Configured Proxmox to host 12 isolated VMs and Kubernetes micro-clusters, enabling safe reproduction of CVEs and blue-team remediation testing.
- Implemented disk-level encryption and Secure Boot to protect sensitive client data used in exploit research.

Raspberry Pi 4+ Middleman Middleware (Pi-hole)

- Configured and maintained a Raspberry Pi 4+ as a Pi-hole server, serving as a network-wide ad blocker and improving overall network security and performance.

Synology Server Setup with RAID 60

- Implemented a Synology NAS setup with RAID 60 across four bays, ensuring data redundancy and optimal performance. Currently exploring the transition to RAID 10 for better write performance and resilience.

Hackintosh (High Sierra)

- Built and configured a Hackintosh running macOS High Sierra, achieving full functionality with custom hardware.

EDUCATION

University of St. Thomas <i>Master's, Artificial Intelligence</i> Relevant Coursework: Cloud Computing, Machine Learning	University of St. Thomas, MN December 2026
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Augsburg University <i>Bachelor's of Science, Computer Science Mathematics Physics</i>	Minneapolis, MN May 2020
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VOLUNTEER ACTIVITIES

- Personal Projects | 2019 – Present | Using S3 and Amazon Polly to convert PDFs to audiobooks
- Substance Church – Manna Pack | 2020 – Present | Packed and organized food for those in need.
- Union Gospel Mission | 2023 – Present | Packed and organized food for those in need.