

# 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

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**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

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### 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

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### 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

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### University of St. Thomas

*Master's, Artificial Intelligence*

Relevant Coursework: Cloud Computing, Machine Learning

University of St. Thomas, MN

December 2026

### Augsburg University

*Bachelor's of Science, Computer Science | Mathematics | Physics*

Minneapolis, MN

May 2020

## VOLUNTEER ACTIVITIES

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- 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.