

AUSTIN J HUNT

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RELEVANT EXPERIENCE

Digital Communications Developer / Webmaster - Dec 2019 to Present - *College of Charleston, Now Remote*

- **Cost reductions:** Reduce COTS costs by **\$60K+** with automation scripting and full stack application development; reduce server costs with Docker containers; advocate lower-cost hosting strategies without risking service delivery
- **Defining and meeting needs:** Save **hundreds of hours across 50+ business units** by building **30+ REST APIs** (Flask, Node/Express, PHP), full stack apps (Java Spring Boot, Django, React, PHP), scripts (Python, Bash, PowerShell, JS), and no-code solutions (Power Platform) for automation and system integrations
- **Public-facing development:** Quickly learn WP development to build & document new easy-to-use WP theme for public-facing high-traffic organization sites (e.g., 25K+ visits / month); develop, deploy, & maintain customer-facing features for high-traffic (50k+ visits per month) charleston.edu sites (e.g., admissions, continuing education programs, library, etc.)
- **Tech advocacy:** Lead **CI/CD adoption** with GitHub Actions, **reducing deployment times by 90%**; train IT teams upon request on Git workflows and PR reviews to improve code version control and quality; provide demo use cases of Docker, Ansible, & GitHub Copilot within IT; push broader use of O365 Power Platform, SharePoint, and Teams across campus where feasible; encourage use of digital solutions to replace thousands of inaccessible PDFs; push internal **Postman** usage to boost collaboration and centralize documentation around APIs
- **Network architecture:** Work closely and frequently with network security team to troubleshoot and deploy within zero-trust network architecture; script new VM templates with focus on integration with network monitoring and alerting system Icinga 2 for better scalability; leverage container networking and reverse proxies for containerized apps with databases and caches; learn to troubleshoot networking between containers, hosts, internal and external networks, and the role played by NAT gateways, virtual servers, and host/network firewalls (handy even for front end development)
- **Security focus:** Improve and maintain security posture on **30+ Ubuntu & RHEL servers**; integrate servers with Splunk SIEM for better event visibility; slash service outage frequency with stricter content security policies, path blocking for common attack targets, rate limiting, forced HTTPS, strict firewall rules and limited SSH access; use **threat modeling** to identify and patch weak points; configure RBAC & SSO with Azure AD for custom and COTS apps to adhere to the least privilege access model; prioritize secure storage of credentials during development and secure authentication methods for deployed apps
- **External integrations:** Correspond with **10+ external software vendors**; leverage SDKs/APIs for smooth enterprise system integrations; research external solutions & help organize bids when in-house is not an option
- **Leadership & communication:** Lead **weekly IT meetings** for 3+ years; onboard & train employees; create, edit, share training videos & KB resources; prioritize harmonious relationships, clear communication, & quick turnarounds across campus with frequent customer-facing calls; lead the adoption of open source network monitoring system across IT teams
- **Rapid learning:** Quickly learn and adapt to **dozens** of SaaS & PaaS solutions, in-house legacy systems, and open source software projects to aid in trainings, documentation, implementations, integrations, migrations, and web support/ITSM; learn OBS video editing for creating high-quality training videos

Temp (full time, hourly) - May 2019 to Dec 2019 - *College of Charleston, Charleston, SC*

- Implement network monitoring and alerting for 1000+ hosts with open source software Icinga 2 (had to learn the architecture quickly and closely collaborate with networking team due to zero trust network architecture)
- Configure distributed infrastructure (7 server cluster) with Ansible and script custom service checks with NCPA, Python, Bash, ICMP, SNMP, and SSH; script custom alerting via Teams, email, SMS for each IT team
- Eliminate bottlenecks by building Django SSO-enabled app with RBAC for each team to manage their own server monitoring

Student Network Engineer - Oct 2017 to May 2019 - *College of Charleston, Charleston, SC*

- Automate network device firmware upgrades with Python; handle zero-downtime installs and configs with CLI; train new employees

EDUCATION: M.S. Computer Science, Vanderbilt University. B.S. Computer Science, College of Charleston.

CERTIFICATIONS: AWS Certified Solutions Architect (in progress, expected Q2 2025); CKA (Certified Kubernetes Administrator); DCA (Docker Certified Associate); PCAP (Certified Associate Python Programmer)

PROJECTS & PUBLICATIONS

Ellucian Web Forms - Java Spring Boot application that uses a modern Ellucian Ethos Java SDK to read from and write to Banner ERP system via Ellucian Ethos and migrate away from a legacy, out-of-support ASP.NET project

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Language: Java (migrating from C#) / **Roles:** Solo developer, with guidance from ERP expert

Go-Gemini - Exploring Golang against the Gemini Exchange API, with functions for public and private API endpoints. **Language:** Go / **Roles:** Solo developer

NovaBrains.ai - LLM-assisted, LMS-integrated digital textbook platform for educators and learners alike for building and using engaging, interactive courses. In collaboration with Ayman Hajja, PhD.

Stack: AWS services (CLI, SAM, R53, EBS, S3, Lambda, Cloudwatch, IAM), Python, JS, GitHub Actions, React JS, Material UI, Django REST Framework, OpenAI ChatGPT API (completions, embeddings), Swagger, Slack, Jira, GCP, reCAPTCHA, Postman, OAuth2, ToTP MFA, Sentry for app monitoring and alerting

Roles: Collaborator, cloud architect, devops engineer, full-stack developer, cofounder.

StudyRocket.ai - AI-powered, on-the-fly interactive quiz generation about anything you want to study. In collaboration with Ayman Hajja, PhD.

Stack: AWS (CLI, SAM, R53, EBS, S3, Lambda, Cloudwatch, IAM), Python, JS, GitHub Actions, React, Material UI, Django REST Framework, OpenAI ChatGPT API (completions, embeddings), Swagger, Slack, Jira, GCP, reCAPTCHA, ToTP MFA, Postman, Sentry for app monitoring and alerting

Roles: Collaborator, cloud architect, devops engineer, full-stack co-developer, cofounder June 2024 - Present

sketchyactivity.com - Art portfolio and commission portal SPA hosted for free on GitHub to save money.

Stack: GitHub Pages, React, Google Analytics 4 / **Roles:** Solo web developer.

jerrywestonmize.com - Freelance WordPress development for a client's music lessons payment gateway with an array of custom plugins (PHP, JS)

Stack: Linode, WordPress (PHP, JS, CSS), WP Amelia for Payments, Colibri, custom plugins, Google Analytics 4

Roles: Freelance full stack web developer, web support / troubleshooter

A Template-Based Spaced Repetition Learning Solution Designed for Educators; 2021 IEEE FIE Conference. FIE Conference. Oct 2021. Ayman Hajja, Austin Hunt.

A Novel E-Learning Platform for Building and Publishing Student-Driven Personalized Lessons; 2020 IEEE FIE Conference. FIE Conference. Oct 2020. Ayman Hajja, Austin Hunt.

PolyPy: A Web-Platform for Generating Quasi-Random Python Code and Gaining Insights on Student Learning; 2019 IEEE FIE Conference. FIE Conference. Oct 2019. Ayman Hajja, Austin Hunt, Ren'ee McCauley

austinhunt.medium.com - technical writing with a hefty splash of odd humor