Jim Craveiro - Software/Devops Engineer

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Relevant Work Experience

RapDev.io - Devops Engineer - 2yr 8mo
- Expert support and consulting for Fortune 500 and 100 enterprises
- Datadog SME - proficient in Datadog tools, offering guidance and support to clients for monitoring and alerting systems
- ServiceNow - integration experience
- Full Stack Development & Consulting - lead engineer & architect on multiple projects, engaging with clients for requirements gathering, demos, deployment, and support
- In-depth Debugging & Monitoring - conducted thorough debugging and monitoring by embedding myself into clients' environments, both cloud and on-site, to identify and resolve issues
- Tool Development - architected and developed custom tools to maintain and monitor clients' environments
- Hybrid work environment, primarily remote

Managed Services Team - IT Support Engineer - 6mo
- Daytime support utilizing remote tools
- On-site support when necessary
- 24/7 on-call remote support experience
- Full spectrum support described as:
  - computer deployment, support, and maintenance
  - misc. hardware deployment, support, and maintenance
  - software deployment and support
  - server support and maintenance (including active directory)
  - network support and maintenance (including firewalls & vpns)
  - handling of confidential data
  - extensive documentation incl. but not limited to; methods & tools used, issues & workarounds, client information, credentials, etc.

MITRE - Innovation and Technology Co-op - 2yr
- Team oriented rapid prototyping
- Focus on emerging technologies and how to integrate them into the workplace
- Lead developer on project prototyping new internal search frontend
- Minor experience with fuzz testing for military adjacent technologies
- Including both fully remote and fully on-site experience

RIT - Software Engineering, Graduate Teaching Assistant - 4mo
- Real Time & Embedded Systems Course
  - focus on QNX Neutrino RTOS & C programming language
- Presented topics to the class
- Evaluated students' project reports and demos
- Assisted students in class
- Voluntarily held out-of-class help sessions

Skills

Languages (ordered by proficiency)
- Python
- JavaScript
- Shell script
- Java
- PowerShell
- C/C#/C++ (similar proficiency)
- Batch script
- ARM Cortex M0+ Assembly

Libraries & Frameworks
- Python
  - NumPy
  - Django
- JavaScript
  - Express.js
  - Knex.js
  - jQuery
  - AngularJS
  - React
  - Redux

Databases
- SQLite
- MongoDB
- PostgreSQL
- MSSQL
- MySQL

Cloud Technologies
- AWS
  - EC2, EBS, S3, RDS, CloudFront, Route 53, VPC, ELB, IAM, KMS
- Azure
  - Data Factory, Data Lake, Databricks, Synapse, Event Hubs, VMs, Azure Functions, AKS, Container Instances, Azure SQL, ADO, Azure AD

Miscellaneous
- Linux & Windows Sysadmin
- Datadog
- ServiceNow
- Node.js
- Docker
- Helm
- Kubernetes
- Ansible
- HashiCorp
  - Terraform
  - Vault
  - Consul

Personal Projects

BMP Encoder
- Python project to losslessly encode an image into another image (child is lossless, parent is lossy)
- Original concept was to have it be indiscernible to the human eye, but with the goal of a consistent pattern that AI could easily find and reconstruct
- Eventually added format preserving encryption as an option with pyffx
- Encodes/decodes a child image of half height and half width of a parent into/from the parent image
- Currently closed source, plan to open source it in the future

Fox Latch
- Python/Django web based door lock controller
- Hardware used included a Raspberry Pi, a servo, and a hall effect sensor
- Raspberry Pi, using Python, interfaced with hardware via GPIO while also serving the web frontend with Python/Django
- Open source, available on my Github

Thunderdome Rave
- Sub-project from a team working with a web accessible vending machine
- Goal for super-project was to allow CSH alumni to drop free drinks and set off an alarm, letting members get them on a first-come, first-served basis
- This was the alarm aspect of the super-project, controlling speakers and an LED strip with a Raspberry Pi
- Python used to interface with hardware via GPIO and the 3.5mm audio out
- Open source, available on my Github

Education & Extracurricular

Rochester Institute of Technology (RIT)

B.S. Software Engineering *<unfinished>*
- Focus on Computing Security and Embedded Systems
- Minor in Computer Engineering
- Over 4 years of study including 1 year of full-time co-op experience (5 year degree)
- Planning on finishing it in the future

Computer Science House (CSH)
- Special interest house at RIT where members have an interest in computers
- Requires one technical project to be evaluated by members each year
- Promotes seminars from members and industry experts on technical topics
- Heavily emphasizes and supports hands-on learning

Eagle Scout
- Highest rank in scouting, displaying leadership and capstoned by an "Eagle project"
- Organized and ran a pasta dinner as a fund raiser
- Then organized and executed the construction of a 1300' path, by hand, in my local monastery
- Countless hours of volunteer work
- Experience as an adult leader as well as working for a large scout camp in the summer, mainly training children how to safely operate and maintain firearms and archery equipment

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