

# DAVID CONNER

I'm an engineer with experience in networking, databases, containers, and web applications. I'm looking to transition into a role that leverages software to solve domain-specific problems, whether as an application programmer or devops. I have experience integrating disparate systems with minimal service interruptions and no loss of data.

I'm fast learner with a thirst for staying ahead in the technology world. When practical, I prefer the source code as documentation for most tools.

- » **Hobbies:** FOSS, Learning, Painting, Drawing, Kaggle, Electronics, Dance, Board Games, Writing
- » **Apps:** Blender, Krita, FreeCAD, OpenCascade, Inventor, Matlab, IRC

## »»» Formal Education

Virginia Western Community College

2006 - 2008; 2021 - **Mechatronics S.E.T.**

- » Obtained a Cisco CCNA certification (2008)
- » Studied design, manufacture, electronics, CNC and safety
- » Planning one course per semester to utilize the Fab Lab

Virginia Tech

2004 - 2006; 2008 **Computer Science**

- » Studied Computer Science. Dropped out to compete in jamskating at a national level

## »»» Continuing Education

Coursera

2012 - **Perennial Education**

- » Certificates: Epigenetics, 2014; Bioinformatics I/II, 2015
- » Other: Machine Learning, 2012; Drugs in the Brain, 2014

Self-Directed Study

2015 - **Perennial Education**

- » Watched at least 1,000 hours of YouTube lectures on mathematics, engineering and emerging fields.
- » Used the zettelkasten method to synthesize insights from dozens of fields. Wrote essays combining cybernetics, semiotics, artificial intelligence, agency and sociology
- » Designed a graphics library for Swift to leverage functional composition for dynamic rendering pipelines using features unique to Metal

Homelab

2021 - **Automation**

- » Developed ansible playbooks SDN for VLANS, Firewalls and IP Migration
- » Created a Guix System image for GPG and Smallstep CA

Workshop

2021 - **Learning Craftsmanship For Independence**

- » Modifying online designs to build a workbench and shelving
- » Organized a workshop for woodworking, electronics, and making art supplies

## »»» Summary

- » **Lang:** Bash, Ruby, Python, JS, TS, Clojure, Emacs Lisp, Scheme, Julia, Scala
- » **Tools:** Emacs, Org Mode, Direnv, Ansible, KDE, i3, VTY, GNU Screen, pyenv, poetry
- » **Data:** Reporting, ETL, Postgres, MSSQL, SQLite3, Parquet, jq
- » **Security:** GPG, PIV, CA, Firewalls, Crypto
- » **Linux:** RPM, Guix, Docker, Podman, LVM
- » **Cloud:** Terraform, k8s, GCP
- » **Homelab:** SDN, VLAN, Proxmox, SR-IOV, UPS/Power

**Interests:** Math, 3D Graphics, 3D Design, Philosophy, Futurism, Writing, Linguistics, Semiotics, Bioinformatics, Epigenetics, Colorimetry, Logistics, Materials

## »»» Experience

Virginia Western Community College

2022 - 2023 **Engineering Student Aide**

- » Maintained Ender-3 Pro and Raise3D printers. Synced Ender-3 configurations for PLA plastics
- » Created an Autodesk Fusion CNC config for a Velocity CNC
- » Collected notes on almost all equipment including support links and digital copies of manuals

RAKE Digital

2018 **Cloud Engineer**

- » Used MS SQL table metadata to quickly learn the accounting database schema for Millennium and ReadyPay
- » Designed an application stack with LoopbackJS and Angular 6 to automate payroll tasks in Azure

Voxxel (Startup)

2015 - 2017 **Founder**

- » Voxxel enabled fans to score their impersonations of movie quotes and accents
- » Built a Rails API to back prototypes in iOS, Android and AngularJS. Each client processed and visualized the FFT

Oscil8 (Startup)

2011 - 2015 **Founder**

- » Oscil8 was designed to be the "Github for Music Producers"
- » Developed a business model and strategic vision

Left + Right (Contract)

2014 **Software Developer**

- » Developed a web service to extend a Ruby on Rails application with reporting on SQL Views
- » Cached report results in MongoDB to enable a dashboard

Jumpcloud

2013 **Software Engineer**

- » Full stack development using a NodeJS API and MongoDB
- » Integration tests using Mocha, Selenium and Soda