# Andrew Cartwright

*Full-Stack Software Engineer in Birmingham, AL, specializing in TypeScript, React, and Node.js. Passionate about Arduino projects and Linux. Enthusiastic mentor who enjoys gardening, cooking, woodworking, hiking, and spending time with my pets.*

Birmingham, AL
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## EXPERIENCE

### Covalence — *Software Developer / Lead Instructor* (2020 – Present)

- Led a comprehensive full-stack web development bootcamp covering TypeScript, React, Node.js, relational SQL, and authentication.
- Developed and continuously updated a dynamic curriculum that stayed current with industry trends to maximize utility and enhance student hireability.
- Created and distributed programming tutorials accessible to the broader developer community, sharing knowledge beyond the classroom.

### Hubbard Systems — *DevOps Engineer* (2019 – 2020)

- Established the DevOps department, automating processes and developing CI/CD pipelines with Jenkins on a stack involving COBOL, Java, & Electron/React.
- Created development tools including a utility to convert JSON and COBOL source code into Markdown tables, rapidly expanding our API documentation in addition to a sterile dataset generator for general purpose use and stress testing.
- Setup a deployment process with our own Chocolatey server, automating the packaging and deployment of application components.

### Vincari — *Software Engineer* (2016 – 2017)

- Developed new features and resolved bugs for an EMR/Operative documentation web app using Ruby on Rails, Angular.js, and MySQL.
- Managed AWS infrastructure, focusing on EC2, VPCs, and S3.
- Implemented a logging and analytics framework with SumoLogic to enhance client support and troubleshooting for the Implementation & Support teams.

### Hubbard Systems — *Application Systems Analyst* (2015 – 2016)

- Provided training and support for our accounting application, and performed Windows, Linux, and MS SQL server administration.

## CERTIFICATIONS

- **AWS:** Certified Cloud Practitioner, Certified Developer*(exp. Sept 2024)*
- **Microsoft:** Azure Fundamentals, MTA Software Development Fundamentals, MTA Database Fundamentals, MTA Security Fundamentals
- **Linux Professional Institute:** Linux Essentials, LPIC-1*(exp. Sept 2024)*
- **CompTIA:** Healthcare IT Technician

## SKILLS

TypeScript, React, Node.js, ES6+ JavaScript, HTML5, CSS3, mobile responsive design, Tailwind, Bootstrap, MaterialUI, styled-components, Stripe, Square, Mailgun, Mailchimp, Auth, Passport.js, JWTs, RESTful API design, Relational SQL (mainly Postgres and MySQL), NoSQL (primarily MongoDB), key-value DBs (primarily Redis), python, C++, Arduino, Linux, git, AWS, Azure, Heroku, DigitalOcean, Devops, Jenkins

## EDUCATION

### A.S. Mathematics (2024)

Jefferson State Community College

*Mu Alpha Theta member & obtained a 3.3 GPA in my math courses, including Cal I, II, III, Statistics, Differential Equations, & Linear Algebra.*

### A.S. Programming (2017)

Jefferson State Community College

*The recipient of the 2016 College Scholars award.*

### Other Academic Achievements

*Completed 150+ credit hours between my healthcare and STEM studies at Jefferson State and Auburn University, exceeding the typical requirements for a Bachelor's degree.*