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# ANTHONY COFFEY

Full-Stack Software Engineer

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## SUMMARY

Full-Stack Software Engineer with 12+ years of experience maintaining infrastructure and code for web and mobile applications. Expert with React, Next.js & Python and passionate about creating secure applications that scale. Proven track record designing and deploying successful software projects across various industries, including cybersecurity, healthcare, fintech and startups.

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## WORK EXPERIENCE

### **Cybersecurity Analyst | Health Tech Defenders** **December 2023 - Present**

- Led penetration testing for web applications, APIs, and cloud infrastructure in healthcare systems, identifying critical vulnerabilities (SQL injection, XSS, CSRF, misconfigurations).
- Authored detailed security reports with risk assessments and remediation strategies to improve system defenses.

### **Solutions Architect | 24hrcarunlocking.com** **August 2023 - Present**

- Engineered a React Native mobile app for iOS/Android to optimize roadside technician workflows with real-time fleet tracking, and managed Apple App Store and Google Play Store submissions
- Integrated Twilio Flex with a proprietary CRM to streamline customer service and dispatch operations.
- Implemented a CI/CD pipeline to automate build and deployment processes across

### **Staff Engineer | Southern Made** **May 2024 - September 2024**

- Designed system architecture for the **DORITOS Crash the Super Bowl** event, leveraging Google Video Intelligence API and Gemini API for automated video review.

### **Full-Stack Software Engineer | Marani Health** **March 2022 - April 2024**

- Developed an annotation tool to validate heart rate and contraction monitoring algorithms for FDA 510(k) approval.
- Increased test code coverage from **0% to 99%**, improving algorithm accuracy and stability.
- Authored comprehensive test reports as part of the FDA submission process.

### **React Native Developer | festivalPass** **March 2021 - April 2022**

- Engineered and deployed a cross-platform React Native application from an existing web solution for iOS and Android.
- Managed Apple App Store and Google Play Store submissions for the festivalPass React Native application.

## Full-Stack Software Engineer | Lifecycle Insights

January 2019 – June 2021

- Architected a sophisticated MEVN-based interactive survey platform with dynamic data visualization and automated generation of branded PDF reports tailored to individual user responses.

## Full-Stack Developer | Smart Insurance

August 2023 – Present

- Designed an online insurance quote system that improved conversion rates and automated quote generation.
- Ensured platform compliance with industry standards and regulations for workers' compensation insurance.

## Full-Stack Developer | RiskPro®

January 2014 – June 2016

- Optimized financial algorithms for portfolio calculations, improving performance and accuracy.
- Developed features and fixed hundreds of bugs, enhancing platform stability and usability.

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## TECHNICAL SKILLS

### Frontend

- React
- React Native
- Next.js
- Vue.js / Nuxt
- Angular

### Backend

- Node
- Express.js
- Flask
- Laravel
- Strapi
- SSR

### Databases

- PostgreSQL
- MySQL
- SQLite
- MongoDB
- Firestore
- DynamoDB

### IaC, PaaS, DevOps

- GitHub Actions
- Docker
- Terraform, Ansible
- Kubernetes
- Supabase
- Heroku, Vercel
- Expo

### Programming Languages

- JavaScript(ES6+) / TypeScript
- Python
- PHP
- C++
- C#

### Cloud & DevOps

- VPC, IAM
- **AWS**  
EC2, RDS, Lambda, S3, CodeBuild, CodePipeline, Amplify
- **Google Cloud**  
Compute Engine, Kubernetes Engine, Firebase, AppHosting, Cloud Run, Cloud Storage, Gemini, Genkit

### AI/ML

- Gemini
- Cloud Vision
- Sagemaker
- Claude Code
- Pytorch
- Tensorflow
- GPT-4o

### Security & Compliance

- Penetration Testing (Burp Suite, Nmap, Metasploit, Nikto)
- OAuth 2.0, JWT, Auth0,
- IAM Security
- GDPR/PCI Compliance
- Web Security (XSS, CSRF, SQL Injection Prevention)

# EDUCATION

**Gulf Coast State College | Associate of Arts**

**Graduated May 2012**

- Object-Oriented Design,
  - Systems Analysis,
  - Database Management
  - Security+
  - Network+ Fundamentals
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# PROJECTS

- [React Drum Machine](#)  
Fully functional drum machine / step sequencer with tempo and volume controls.
- [Simply Voice](#)  
Create a simple web app that allows users to generate .wav files from text input using Google Cloud Text-to-Speech API, with user authentication and storage.
- [Piano Scale Visualizer](#)  
Developed an interactive virtual piano with visual highlighting for scales and real-time audio feedback using the Web Audio API.