Antonio Archer

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Summary
Self-driven Software Developer with strong full-stack expertise and a passion for both code and infrastructure. Delivered real-world applications, including scalable business tools, social platforms, and internal dashboards. Experienced across MERN, Next.js, React, and Python-based stacks. Adept in DevOps practices, system administration, and cloud deployment.

Technical Skills

Languages & Frameworks
- TypeScript, JavaScript, Python, React, Next.js, Express.js, Flask, Golang(Go)

Backend & DevOps
- Node.js, Docker, CI/CD Pipelines, APIs/MCPS, VPS (DigitalOcean, AWS), HA Kubernetes(K8S/K3S), GitOps, FluxCD

Databases & Caching
- PostgreSQL, Redis, MongoDB, MySQL, Firebase

System Administration
- Ubuntu/Linux, Bash, Windows Server, Active Directory, PXE Boot, Networking & Security

AI Engineering & Automation
- Self-hosted LLMs, Vector Databases, Agentic Models, Prompt Engineering, LangChain, OpenAI API

Tools & Ecosystem
- Git, GitHub, VS Code, TailwindCSS, SCSS, Figma, Postman, Chrome DevTools

Professional Experience

Bentley Systems
Full-Stack Developer

July 2025 – August 2025
- Migrated a legacy iTwin.js frontend application to a modern React.js architecture to improve maintainability and performance
- Developed dynamic frontend filters using **ECSQL to query and display 3D Revit model data**
- Shared the application's key features and functionality with team members during internal demo sessions

Launchpad Philly
Full-Stack Developer and Techinal Assistant

January 2023 – June 2025
- Built and deployed full-stack web applications using the **MERN stack to solve real-world problems** for internal teams and community programs
- **Designed RESTful APIs**, implemented frontend interfaces, and managed MongoDB data flows to support dynamic user interactions
- Integrated CI/CD pipelines with Docker and GitHub Actions, reducing deployment friction and ensuring reliable rollouts
- Collaborated cross-functionally with program coordinators to translate business needs into scalable technical solutions
- Mentored over 200 students in AI, software development, and system administration as part of the RouteMary program (Jan–May 2024), providing hands-on guidance, technical support, and project-based learning

Intern Consultant – Cybersecurity & Business Strategy

June 2024 – August 2024
- Conducted security research and proposed improvements to enterprise password protocols and infrastructure
- Led a team in designing a cybersecurity strategy for a company with 85,000 employees
- Delivered technical risk assessments and strategic recommendations to internal leadership

Belmont Charter Network

Student Network Administrator

June 2022 – August 2022
- Managed servers and network infrastructure supporting five schools across the network
- **Deployed and imaged over 1,500 student** and staff devices using PXE boot
- Provided hands-on support in system administration, device provisioning, and network security

Projects

Archer-Fitness

https://www.antonioarcher.com/projects/archer-fitness

Tech Stack: Next.js, TypeScript, PostgreSQL, Docker, Kubernetes, GitOps
- Developed a full-featured **highly available** fitness app
- Hosted on a HA Kubernetes cluster in my home.
- Deployed with Gitops for enhanced Continuous Integration and Continuous Delivery/Deployment

itwin-grid-search

https://antonioarcher.com/projects/ecora

Tech Stack: TypeScript, React, SCSS, ECSQL
- Created a functional extension for the iTwin.js platform to **enhance model data querying**
- Built advanced frontend filters **using ECSQL to interact with 3D Revit models**
- Migrated a legacy React application to a modern React.js framework for improved maintainability

Philly Social

https://www.antonioarcher.com/projects/philly-social

Tech Stack: Next.js, TypeScript, Firebase, TailwindCSS, Redis
- **Built a real-time social networking platform** for Philadelphia residents
- Implemented user authentication, post interaction features, and live chat using Firebase and Redis
- Led front-end development with a focus on responsive UI and accessibility compliance

Certifications
- Certified Entry-Level Python Programmer, Python Institute — 2024
- Academy Accreditation in Generative AI, Databricks — 2024
- React.js Certification, Codecademy — 2025

Education

Belmont Charter High School, Philadelphia, PA

August 2020 – June 2024
- Ranked 1st out of 75 seniors
- GPA: 3.9