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Experience

Principal Software Engineer **Codingal (YC W21)** **Apr 2025 – Present**

- Architected global payment system integrating multiple payment gateways with distributed task processing for reliable, secure transactions.
- Built AI-powered report generation system using OpenAI GPT APIs and Python, reducing manual operational effort by ~80%.
- Designed and implemented full-stack password based authentication using Django REST Framework and Next.js.
- Created in-house comments engine using React, Firebase, and WebSockets, reducing annual costs by significantly.
- Automated Redash backup and disaster recovery on AWS EC2 using Python and Bash, storing versioned backups in GitHub.

Founding Engineer **Maytree School of Entrepreneurship** **Jun 2020 – Dec 2020**

- Built the entire product from scratch as the founding engineer using Node.js (Express.js) and Handlebars.js with server-side rendering.
- Implemented secure authentication with bcrypt, session management, and role-based access control.
- Designed RESTful APIs with validation, error handling, and database integration to support scalable backend operations.
- Set up deployment workflows, environment configuration, and production infrastructure for launch readiness.

Software Engineering Intern **Listiee** **Jan 2020 – Mar 2020**

- Developed responsive frontend features using React.js (ES6+), hooks, and component-based architecture.
- Built cross-browser, mobile-responsive UI using HTML5, CSS3, and Bootstrap.

Open Source Contributor **GitHub** **2020 – 2023**

- Contributed to AICommits (17k+ stars), adding CLI flags and fixing critical issues for AI-assisted commit message generation.
- Enhanced TinyHTTP (7k+ stars) with IP detection features, CouchDB examples, and CI tooling via Husky.
- Refactored Sindre Sorhus' s shell-history project with improved parsing architecture and comprehensive test coverage.

Projects

Animechan : API

Node.js, Express.js, TypeScript, Prisma, MySQL, Redis, PM2, Sentry

- Built scalable REST API with rate limiting, authentication middleware, and production-grade monitoring.
- Implemented security hardening, logging, and webhook integrations.

Day In History : API

Django, Python, Next.js, Redis, PostgreSQL, Tailwind CSS

- Developed full-stack historical content platform with DRF backend and Next.js frontend.
- Integrated AI-powered content generation using Anthropic Claude APIs.
- Deployed with Nginx, Supervisor, Unicorn, and Sentry monitoring.

Toolbox : Web application

Next.js 15, React 19, TypeScript, Tailwind CSS, CodeMirror

- Built a suite of 8+ developer utilities including JSON-to-TypeScript and password generation tools.
- Implemented interactive code editors with real-time validation and transformations.

Cambd : CLI Tool

Python, BeautifulSoup4, SQLite, Click

- Created and published a Python CLI tool for Cambridge Dictionary lookups using web scraping.
- Distributed via PyPI with cross-platform support.

Skills

Programming Languages: JavaScript, TypeScript, Python, Go, SQL, HTML/CSS

Frameworks & Libraries: Django, DRF, React, Next.js, Express.js, Node.js, Tailwind CSS, GraphQL, REST, Jest

Tools & Platforms: Docker, Git, Vim, Tmux, AWS EC2, DigitalOcean, Firebase, MongoDB Atlas, CI/CD

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firebase Firestore