

Michael Vuolo

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EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science

Aug. 2020 – Dec. 2023

- **Accomplishments:** President's Honor Roll (x2), Dean's List (x4), Florida Bright Futures Academic Scholar
- **GPA:** 3.713

EXPERIENCE

Full-stack Software Engineer

Feb. 2024 – Present

Tilli Software

McLean, VA

- Part of the Edge team, working on innovative products such as Tilli X, an all-in-one invoice/utility/specialized payment dashboard and service, configured on a per-tenant basis
- Collaborated with clients on regular calls, developing software and integrations into their ERP systems (SAP/TSS)
- Implemented new payment forms, replacing an old payment solution for one of our clients (Freeman)
- Developed a Business Rule Framework for payment forms, built with a multi-tenancy point-of-view

Full-stack Software Engineer, Fellowship

June 2023 – Aug. 2023

National Security Innovation Network (NSIN), Air Force Research Laboratory (AFRL)

Wright-Patterson AFB, OH

- Spearheaded a team of 4 full-time fellows throughout the conceptualization, development, and execution of a web application designed to streamline management and tracking of the AFRL's device fabrication processes
- Successfully installed the application on 300+ AFRL workstations, improving device fabrication process efficiencies
- Leveraged React, TypeScript, PostgreSQL, Next.js, tRPC, and MinIO among other technologies to craft front-end and back-end modules of the application while spending 8+ work hours daily coding
- Proactively identified and overcame unique installation challenges for deploying software on the secure, web-less OPTONET network, utilizing MinIO object storage technology to optimize data handling in an offline environment
- Instigated vital real-time tracking for lab processes, including inventory control, sample tracking, equipment maintenance, and task allocation. Minimized process errors and facilitated quicker process failure analysis, projecting significant savings in man-hours and operational costs

PROJECTS

USAF Project Management Dashboard | *Next.js, TypeScript, React, tRPC, MySQL*

Jan 2023 – Dec 2023

- Led a 5-person team in developing a project (financial contract) management dashboard for the U.S. Air Force
- Modernized the project's codebase by transitioning from the less supported React Router (in JavaScript) to the more robust and widely-used Next.js framework (in TypeScript), boosting code quality and maintainability

Clever Doc | *Next.js, TypeScript, React, tRPC, PostgreSQL, GPT-4V(ision), Plaid API*

Oct 2022 – Aug 2023

- Led the development of Clever Doc, integrating GPT-4V and advanced parsing techniques to revolutionize CPA accounting, achieving an average 3x increase in transaction coding speed with accurate, tailored categorization.
- Engineered a user-focused interface with intuitive navigation and seamless bank integration, enriched with features like bulk override and customizable rules, effectively addressing diverse industry requirements.

Resell Monster, LLC | *Electron, Node.js, Laravel Broadcasting (€ Echo), Puppeteer*

May 2018 – Aug. 2020

- Spearheaded a large-scale innovative software toolset that automated the purchasing of limited "hype" items online including sneakers, shirts, hoodies, etc. with an all-time average of 4.74 seconds per checkout from release time
- Wrote production-ready code with fluency in modern front-end (Node.js & Electron) and back-end (Go & C#) frameworks for over 3,500 active free-trial users with peak of 13 users paying \$15 monthly for prioritized services
- Collaborated and project managed development milestones from initial steps through final delivery

Store & Social Media Monitors | *Golang, chromedp, GraphQL, Pusher API, fasthttp*

May 2018 – July 2020

- Developed a highly efficient and advanced web scraper using Golang, chromedp, and fasthttp, capable of scraping over 200 stores and 50 Twitter and Instagram accounts per second with proxy rotation (residential & datacenter)
- Implemented Pusher API (using WebSockets) to provide real-time data to users with minimal latency
- Utilized MongoDB to store and manage scraped data, allowing for easy data retrieval and analysis

TECHNICAL SKILLS

Languages: Go, Java, Python, C/C++, SQL (PostgreSQL), JavaScript, Typescript, HTML/CSS, Haskell, LaTeX

Frameworks: React, Node.js, Next.js (12 & 13), Laravel, Electron, JUnit, MongoDB, Express, Gatsby, Vue

Developer Tools: Git, Docker, Microsoft Azure, Amazon AWS, Google Cloud Platform, DigitalOcean, Jira, MinIO

Libraries: Tailwind CSS, tRPC, Prisma, NextAuth.js, PlanetScale, Zod, Argon2, ESLint, Puppeteer, chromedp, openai