Jacob Funke

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EXPERIENCE

Wellth Inc.
Senior Software Engineer   May 2024 – Present

Feature development for mobile-first healthcare daily habit platform improving medication adherence and health outcomes for high-risk patients

- Backend development for React Native iOS/Android application using Typescript, Node.js, Apollo, PostgreSQL, Redis, RabbitMQ
- Integrated third-party services (Customer.io, Mixpanel, Roboflow, Datadog) to enhance observability, analytics, and automation
- Migrated outbound messaging to an event-driven architecture, improving efficiency, scalability, and enabling flexibility of notification timing and content, leading to a 5% increase in daily check-ins
- Built and integrated a computer vision model and application integration for blood pressure and glucometer metrics, enhancing patient engagement and enabling medical intervention

Artera
Senior Software Engineer   April 2022 – May 2024
Software Engineer   January 2019 – April 2022

Early team member in a startup that scaled from 8 to 80+ engineers, playing a key role in developing a B2B healthcare communications platform supporting millions of patients

- Built and maintained full-stack features using TypeScript, Node.js, Express, NestJS, React, with infrastructure services including PostgreSQL, MongoDB, Redis, Elasticsearch, S3, Kafka, and Kinesis
- Led a 5-engineer team, driving development of user-facing portals and outbound messaging orchestration features
- Integrated third-party services (Twilio, PubNub, Epic EHR) to enhance platform capabilities
- Major projects include technical planning and development of:
  - Architected and refactored key messaging services into a NestJS microservice framework, reducing complexity, improving scalability, and enhancing observability
  - Designed and launched Live Chat, enabling secure, real-time communication between patients and hospitals
  - Extended language support from 18 to 109 languages, ensuring full localization across the platform.
- Mentored engineers, championed process improvements, and facilitated org-wide tech talks

Red Ampersand Inc.
Full Stack Engineer   November 2017 – January 2019

Feature development for the screenwriting talent discovery and competition hosting SaaS application Coverfly

- Frontend development using HTML, CSS, Laravel Blade, PHP, Bootstrap, JavaScript, and jQuery
- Backend development using PHP, Laravel, and MySQL, hosted on AWS EC2 and RDS
- Independently conceived, pitched, planned, and implemented product features including:
  - Writer Profile - A personalized page for screenwriters to showcase achievements and share scripts
  - Industry Dashboard - An invite-only dashboard to help film industry leaders find top-rated scripts

Telescope Inc.
Technical Operations Engineer   July 2016 – November 2017

API engineer and technical lead for television-specific social media fan-vote applications with millions of users

- Designed and built APIs optimized to handle high volumes of votes submitted via API and social media
- Projects included ABC's Dancing with the Stars, NBC's America's Got Talent, iHeartRadio Music Awards
- Comprehensive testing and debugging of API performance, behavior, and reliability
- Scaled, monitored, and triaged live-on-television vote events on distributed AWS EC2 environment

SAS Institute
Systems Support Engineer   February 2015 – June 2016

- Collaborated with dev team on development of hotfixes and patches to triage issues raised by customers
- Directly assisted customers and application engineers with SAS installation and deployment issues
- Designed, built, and maintained team website/CMS to organize departmental resources

Renesas Electronics America
Embedded Software Engineer   September 2013 – March 2014

- Ported firmware code between CubeSuite and IAR Compilers for the RL78/L13 Capacitive Touch board
- Created application code examples and supporting documentation to assist new product users (C/C++)

EDUCATION

North Carolina State University   May 2013
BS in Computer Engineering, BS in Electrical Engineering, Magna Cum Laude

SKILLS

TypeScript, JavaScript, Node.js, NestJS, React, PHP, Laravel, Elixir, Phoenix, PostgreSQL, MongoDB, Elasticsearch, Redis, RabbitMQ, Docker, Github Actions, CircleCI, Jenkins, Git, AWS, Aptible, Railway, Vercel, Linux