MICHAEL RANDALL

DIRECTOR | SENIOR FULL STACK ENGINEER

CONTACT

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KEY SKILLS

- ➢ React
- ➢ Angular
- ➢ JavaScript
- ➢ Node.js
- ➢ Typescript
- ➢ Python

- ➢ AWS
- ➢ SQL/NoSQL/MySQL
- ➢ Terraform
- ➢ Postgres
- ➢ GraphQL
- ➢ REST/REST API

- ➢ Redis
- ➢ CSS
- ➢ Docker
- ➢ Jenkins
- ➢ Git
- ➢ HTML

PROFESSIONAL SUMMARY

Influential, trusted tech leader with vast healthcare leadership in Startups and Fortune 500 companies as a Software Engineering Director & Senior Full Stack Engineer, with expertise in a host of diverse coding languages. Innovative thinker and problem solver, highly skilled in architecting quality on-site & cloud-based solutions. Exceptional ability to conceptualize and drive impactful initiatives with ambiguous requirements, using a "get it done" approach. Known for replacing legacy apps, securing millions in funding, & improving team velocity. Experience managing Protected Health Info, like Electronic Health Records (EHR) and Clinical Trial Data. Adept in leading large globally distributed teams, ensuring the development of stable code with consistent and reliable releases in quickly changing environments. I work remotely and cross-functionally with leadership, stakeholders, and all teams to ensure goals are achieved in the most efficient and timely manner. Ability to mentor, train, and recruit high performing technical teams. Proven track record building and scaling high growth organizations using Agile methodologies.

PROFESSIONAL EXPERIENCE

CGI
Director/Subject Matter Expert, (April 2023-Present)
WCG (CGI Project)

WCG Improves the quality and efficiency of clinical trials. Facilitating Pharmaceuticals, Biopharma, Device Manufacturers, Sites, CROs, and Institutions in the development of new treatments and therapies for patients.

- First developer from CGI, tasked with replacing existing online web app, as well as 30-year-old legacy desktop application.
- Built a proof of concept (POC) named eReviewManager using FastAPI and Postgres Database on backend and an Angular frontend using Docker, within the first 30 days.
- POC was accepted by WCGs board, and received over $10 Million in funding.
- Expanded the team to 40+ developers, which I led and managed.
- Implemented SDLC process, translating requirements into Jira stories.
- Designed application to integrate messaging from external clients to internal business users, allowing real time notifications of submission and document approvals, and chat functionality, using websockets through Azure Web PubSub.

- Architected role based permission system, validating access to appropriate functionality.

- Interactions between eReviewManager and legacy application were added utilizing Kafka.

- Updated deployment process, utilizing terraform for portability, CloudSmith for external resource management, and Checkmarx for threat and vulnerability assessment.

Cigna | (AMP) Analytics Management Platform, (May 2022-April 2023)

Affordability Management Platform enables Contractors, Network Analytics, Pricing, Competitive Intelligence, and Opportunity Detection to view Cigna's Key Business trends for different providers and systems. AMP is a portal, hosting analytics and metrics of Cigna's provider networks. It also provides user admin to all the tools in the AMP ecosystem.

- Led team of 20+ developers.

- Designed application, from database and APIs, to frontend UI using React and React UI.

- Formalized SLDC and CI/CD process.

- Improved engineering team output from 10 points per sprint to over 70.

- Reduced use of unnecessary tools, consolidated resources, and cut AWS monthly costs by 30%.

- Dramatically improved the AMP ecosystem, resulting in higher velocities, improved code stability and exceptionally reliable product deliveries.

Cigna | Contract Strategy, (Nov 2020-April 2022)

Contract Strategy is a tool, allowing contractors to create strategies for renewing provider contracts. It handles $90B worth of Cigna's business. All contract negotiations are expected to use Contract Strategy by end of 2025.

- Led team of 10+ developers.

- Architected Contract Strategy application, providing a way to pivot contract strategies to accommodate the renewal needs of disparate providers while still conforming to basic contract format.

- Built backend utilizing AWS, SNS, and SQS events, enabling asynchronous updates from different tools.

- Implemented real time backend to frontend communication using websockets, allowing underwriters to collaborate and see changes immediately.

- Permissions implemented and communicated via websockets, allowing users to grant or remove access instantly.

- Designed and implemented a notification system, so users could be notified of changes to things like their profile.

- Frontend built using React and React UI, with tests written in Jest.
- Formalized SLDC and CI/CD process.
- Implemented Contract strategy into the AMP ecosystem.

Cigna | (CMP) Client Management Platform, (Jan 2020-Nov 2020)

CMP allows clients to access analytics and build marketing documentation such as graphs and data into documents like PPT and PDFs.

- Developed Story Builder, combining analytics metrics into graphs and PowerPoint documents.
- Built AWS Lambda microservices using Sequelize, connecting to a Postgres database deployed to Amazon RDS.
- Formalized SLDC and CI/CD process.
- Implemented CI/CD using Openshift.
- Frontend developed in Angular 10, using Tailwind, Material UI, Bootstrap, and PrimeNg.
- Integrated E2E tests in the pipeline using Protractor.

Cigna | (CAP) Client Access Platform, (May 2019-Jan 2020)

CAP provides tools to allow clients to build metrics without having to put requests to Data & Analytics based on a wide subset of data stores. Users could build numerical or categorical metrics for different types of categories such as Clinical, Financial, or Membership, and specify different conditions as well as any actions that should be performed.

- Developed Frontend using Angular 6.0.
- Implemented E2E tests using protractor.

Diameter Health
Senior Software Engineer, Aug 2017-Sept 2018

Diameter Health was a startup that worked to simplify and combine medical records (EHR/EMR) in a concise and organized manner.

- Built de-duplicator tool, which coalesced multiple EHR and combined them into a single record, using NodeJS and MongoDB.
- Medical records processed included CCDA and HL7.
- Developed frontend interface using React.

EXOS
Senior Software Engineer/Team Lead, Aug 2008-Aug 2017

Exos trains professional and tactical athletes across sports and military. As a leader in corporate wellness solutions, over 25% of Fortune 100 companies use Exos.

- Created prototype Mobile App, Ocelot, using Ionic and Angular,

allowing users to browse workouts and stream them to Google Chromecast in Exos "Microgyms".

- Developed Exos Journey, a corporate wellness experience, offering Missions, the updated online training programs, and Journeys, which were goal-based challenges, offering videos and education around nutrition and movement. Journey was utilized by companies such as Intel, Google, and Tesla.

- Spearheaded an effort to recreate our training programs, members.coreperformance.com, as MyCP, implementing AJAX based site with custom JavaScript, as sole engineer. This led to a 20% increase in membership.

- Led team of developers maintaining Exos digital properties, including teamexos.com, athletesperformance.com, and coreperformance.com.

WWE
Senior Web Developer, Aug 2006-Aug 2008

World Wrestling Entertainment is an American wrestling entertainment promotion. It is the most well-known wrestling promotion in the world.

- Built frontend interfaces for news, and online voting for things like WWE Diva Search, the online game to find the next WWE Diva.

- Worked on mitigating latency on the website, reducing load times by 60%.

- Integrated mobile alerts for WWE mobile, including ringtone and wallpaper purchasing.

- Led effort to replace bulky flash with HTML, CSS, and JavaScript.

- Integrated java based Content Management System.