Nicholas Dullam

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WORK EXPERIENCE

Senior Software Engineer   June 2024 – Present
Testimonial Tree   *Remote*

I led the migration of our core product to a new stack, reducing costs by over 15% and consolidating engineering into a single, serverless ecosystem.

- Worked closely with the Director of Engineering to lead our team, review PRs, and develop scalable DX patterns
- Migrated a legacy service to our new application, ensuring regression and backwards compatibility for existing clients
- Implemented automated testing procedures – introducing CI/CD with Bitbucket Pipelines, using Jest and Playwright

Skills – Next.js, Typescript, React.js, Node.js, Turborepo, SQLServer, Redis, Bitbucket Pipelines, Jest, Playwright, Vercel, AWS

Software Engineer II   July 2023 – June 2024
Testimonial Tree   *Remote*

I managed the conversion of our client-facing survey and collection services and served as a founding engineer for experimental machine learning (ML) add-on products on our platform.

- Worked with critical stakeholders to research and develop retrieval-augmented generation (RAG) integrations
- Storybooked and implemented product specs in our production application
- Migrated customer-facing applications while working alongside team members to coordinate cross-stack deployments

Skills – Next.js, Typescript, React.js, Node.js, Turborepo, SQLServer, Python, LangChain, Llama Index, RAG, Pinecone, Vercel, AWS

Development Lead   May 2020 – Jan 2024
Sustainably   *Remote*

I built the foundation of our core application, enabling fitness and nutrition tracking, automated meal planning, recipes, and course tool services.

- Launched an MVP with 3+ functional iterations
- Worked cross-functionally to design, develop, and deliver functional requirements in collaboration with the Founder & CEO
- Led data-driven customer acquisition funnels, tagging, and admin tooling for churn visibility

Skills – React.js, Javascript, Node.js, Express.js, MongoDB, Heroku, AWS, Stripe

Software Engineer Intern   May 2022 – Aug 2022
Visa   *Highlands Ranch, CO*

I handled the middleware team's migration to GCC 7, resolving approximately 800 errors and warnings spanning more than 140 programs across our codebase, with over 96% of critical compile-time errors mitigated.

- Developed effective and scalable C++ solutions for compile-time resolutions
- Wrote, tested, and loaded code in a TPF production environment
- Worked alongside senior engineers and SMEs for affected programs to configure test plans and review code changes

Skills – C++, RabbitMQ, TPF

VP of Engineering   Aug 2016 – Mar 2018
Communicode   *Westfield, IN*

I oversaw the research and development of our machine learning (ML) recommendation processes, with a focus on tailoring developer-to-nonprofit matching.

- Designed profile preference generation and weighting procedures, with K-nearest neighbors (KNN) matching.
- Oversaw development of publish and subscribe methods using Google Cloud Platform (GCP)
- Collaborated cross-functionally to design, develop, and deliver functional requirements to key stakeholders and investors

Skills – Python, NumPy, PubSub, React.js, JavaScript, Node.js, Express.js, MongoDB, Redis, GCP

EDUCATION

Purdue University   Aug 2019 – May 2023
Bachelor of Science in Computer Science, Data Science, and Applied Statistics   *West Lafayette, IN*

- **Concentrations**: Machine Intelligence
- **Certificates:** Entrepreneurship and Innovation Certificate
- **Awards:** Purdue Presidential Scholarship (2019-2023, Spring and Fall semesters)

National University of Singapore   Jan 2022 – May 2022
Study Abroad   *Singapore*