Nicholas Dullam

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EDUCATION

Purdue University – West Lafayette, IN   Aug 2019 – May 2023

Bachelor of Science in Computer Science, Data Science, and Applied Statistics

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

National University of Singapore – Singapore   Jan 2022 – May 2022

Study Abroad

SKILLS

Languages: C, C++, Rust, JavaScript, TypeScript, Python, Java, R

Dependencies & Frameworks: React.js, React Native, Node.js, Express.js, Scikit-learn, NumPy, Pandas, Stripe

Databases: MongoDB, SQL, GraphQL, Redis

Platforms & Services: AWS, GCP, Azure, Heroku

WORK EXPERIENCE

Development Lead   May 2020 – Present

Sustainably – *Remote*

- Launched an MVP with 3+ functional iterations
- Contributed 20,000+ lines of code to the full-stack (MERN) development of the SaaS Web App, Sustainably
- Worked cross-functionally to design, develop, and deliver functional requirements in collaboration with the Founder & CEO
- Created and managed a documented backend REST API for all product microservices with the use Node.js and Express.js
- Designed and implemented user-forward in-app experiences with the use of React.js
- Led key development across all customer-facing features, including nutrition, articles, modules, plans, and recalibration
- Constructed admin panels and handling for platform health monitoring
- Propagated algorithms for custom meal-plan generation and aggregation
- Developed scalable database schema with the use of MongoDB
- Integrated pipelines and tagging of user activities for email sequences and reduction of churn
- Fabricated custom acquisition, checkout, and subscription management through the Stripe API

Software Engineer Intern   May 2022 – Aug 2022

Visa – *Highlands Ranch, CO*

- Contributed to the Visa Integrated Payments (VIP) Middleware team's migration to GCC 7
- Resolved ~800 errors/warnings in the middleware production codebase spanning 140+ programs
- Fixed 96% of critical errors (in 3 months) found at compile time
- Developed effective and scalable C++ solutions for compile-time resolutions
- Adjusted and implemented an MQ functional entry for use in production configurations
- Logged and documented production code changes over 6 work efforts
- Contributed to testing documentation, using VPARS, VM3, and PARSEM
- Wrote, tested, and loaded code in a TPF production environment
- Worked alongside SMEs for affected programs to configure test plans and review code changes
- Maintained communication among senior development and SMEs for ongoing solutions
- Presented work and findings to department leadership

VP of Engineering   Aug 2016 – Mar 2018

Communicode – *Westfield, IN*

- Designed profile preference generation and weighting procedures
- Researched and developed a K-nearest neighbors (KNN) based matching algorithm using Python
- Oversaw development of publish and subscribe methods using GCP
- Collaborated cross-functionally to design, develop, and deliver functional requirements to key stakeholders and investors