M. Cooper Healy

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WORK EXPERIENCE

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MAR 2023

Software Engineer
Nabis, San Fransisco, CA
- Led addition of OpenSearch usage to main order form, leading to 95% reduction in search time
- Worked as member of Core team, responsible for development of V2 Nabis platform
- Worked directly with stakeholders and product team to quickly adapt to user requirements
- Created new accounting management system for credits, unblocking contract renewal for largest customer
- Designed and built new state-agnostic tax handling system to enable national scale

Tech | *TypeScript, AWS, Docker, PostgreSQL*

FEB 2024
NOV 2023

Software Engineer
Arbol Inc, New York, NY
- Stood up new microservices to automate contract confirmation process for legal team
- Worked directly with stakeholders to adapt to changing usage requirements
- Led project for platform tooling, organizing work to be done and customer feedback
- Led several deep refactors to improve performance and maintainability in multiple codebases
- Became domain expert in tooling used for all document generation and management in services

Tech | *TypeScript, AWS, Hasura, Docker, PostgreSQL*

NOV 2023
FEB 2023

Senior Software Engineer (Labs Team)
Copper CRM, San Fransisco CA
- Designed and implemented distributed job system to parallelize computation
- Restructured microservices in a serverless pattern, greatly reducing runtime cost
- Worked directly with product manager to adapt to changing requirements based on user feedback
- Brought brand-new product to public launch seamlessly
- Worked with Designers and front-end engineers to adapt to changing usage requirements

Tech | *Go, Julia, gRPC, Docker, Kubernetes, Kafka, DynamoDB*

NOV 2023
OCT 2021

Software Engineer
C2FO, Leawood KS
- Developed AWS Lambda functions in Python as part of a completely event-driven architecture
- Developed core NestJS-based design for microservices to follow
- Migrated backend from event-driven architecture to distributed microservices
- Created testing suite for entire suite of microservices, reducing service fragility and downtime
- Created team standards for code quality and test coverage, enforcing them with GitHub Actions

Tech | *TypeScript, React, Python, PostgreSQL, AWS Lambda, Docker, Kubernetes, NestJS, Kafka, RabbitMQ*

OCT 2021
JAN 2021

Software Engineer II
Garmin International, Olathe KS
- Added authentication for integration tests, removing the need to store credentials
- Wrote new layer to allow use of SSL in customer-device authentication
- Secured internal endpoints on production services by adding secured connective layer
- Wrote custom application-layer API handling in C++ to allow for more complex internal API usage
- Updated server to handle requests for map data by customer navigation devices in C++

Tech | *C++, Boost, PostgreSQL, Docker, QEMU*

Jan 2021 Feb 2020	**Software Engineer / DevOps Liason** *Service Management Group*, Kansas City MO

- Developed tools to monitor and diagnose data quality issues on a large scale
- Mitigated client-impacting issues with data quality in a timely and permanent manner
- Redesigned messaging architecture for critical and high load infrastructure applications
- Owned and maintained orphaned projects and updated and upgraded them to fit new standards
- Wrote Python tool to analyze millions of records of data to determine source of data issues

Tech | *C#, PostgreSQL, Kafka, RabbitMQ, elasticsearch, TypeScript, AngularJS*

Feb 2020 Jun 2019	**Software Engineer** *Cboe Global Markets*, Lenexa KS

- Designed scalable software to automate analysis of market data
- Prioritized business logic by representing consumers of analysis in design discussions
- Managed the migration of hundreds of scripts to improved analysis framework
- Promoted TDD for all new software through development of new test suite

Tech | *Python, PostgreSQL, Hadoop, Spark, C++*

Jun 2019 May 2018	**Software Engineering Intern** *Garmin International*, Olathe KS

- Owned and maintained .NET tool for configuration of airframes
- Designed testing framework to ensure integrity of new airframe configurations
- Guided two other interns in updating and maintaining said testing framework
- Collaborated directly with users to design new features based on need
- Created comprehensive tests for all existing code within .NET codebase

Tech | *C#, Python, Embedded C*

EDUCATION

2019	**Bachelor of Science, Computer Science** Missouri University of Science and Technology, Rolla MO GPA: 3.5/4.0, Major GPA: **3.9/4.0** **Cum Laude**
2029	**Master of Science, Computer Science** Georgia Institute of Technology, Atlanta GA