

TRISTAN PARTIN

Staff Software Engineer @ Micron Technology

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EXPERIENCE

Staff Software Engineer

Micron Technology

📅 August 2020 – Present

📍 Austin, Texas

- Working on the Heterogeneous-Memory Storage Engine (HSE) in an effort to make it one of if not the fastest performing storage engine on the market
- Fostering an ecosystem around HSE including language bindings and integrations with other open-source storage projects
- Helping to change the way users interact with our engine

Software Developer

Expero

📅 July 2019 – August 2020

📍 Austin, Texas

- Assisted in abstracting a collection of Java/TypeScript/Node.js microservices to be able to use both DataStax Enterprise and open source equivalents like JanusGraph, Cassandra, and Elasticsearch
- Developed a graph database benchmarking suite using Gatling, CosmosDB, TigerGraph, DataStax Enterprise, and Neo4j
- Migrated data from a legacy FileMaker system to AWS RDS

Software Development Intern

Expero

📅 September 2017 – May 2019

📍 College Station, Texas

- Built out a graph database modeling course curriculum
- Developed a daily time reporting tool for company leads to track developer time charges using AWS Lambda and Go
- Created a microservice using AWS S3 and Java that performs dynamic PDF generation
- Built a proof of concept ASP.NET Core application using Microsoft's CosmosDB Gremlin API

Software Engineering Intern

National Instruments

📅 May 2018 – August 2018

📍 Austin, Texas

- Worked as a driver developer on the XNET team, which develops solutions for automotive testing
- Implemented time synchronization between data acquisition modules in order to better correlate collected data using C++ in both the Windows kernel and userspace drivers

Software Engineering Intern

Booz Allen Hamilton

📅 May 2017 – August 2017

📍 Houston, Texas

- Worked under the NASA Mission and Program Integration contract
- Translated a SharePoint table of all payloads/systems, hardware configurations, protrusions and overlaps aboard the International Space Station to MariaDB and SQL
- Developed a desktop application in Python for managing the aforementioned information

EDUCATION

Bachelor of Science

Computer Engineering

Texas A&M University, College Station

🎓 May 2019

SKILLS

C C++ Go Python Java
TypeScript JavaScript React
Linux Git GTK GObject Meson
Docker SQL Terraform

PROJECTS

Heterogeneous-Memory Storage Engine

GitHub://hse-project/hse

- A fast embeddable key-value store designed for SSDs and persistent memory, optimizing performance and endurance by orchestrating data placement across DRAM and multiple classes of solid-state storage

HSE Python Bindings

GitHub://hse-project/hse-python

- Python language bindings for the HSE C API

HSE Java Bindings

GitHub://hse-project/hse-java

- Java language bindings for the HSE C API

Various Open Source Contributions

GitHub, GNOME

- My open-source contributions include organizations and technologies like Meson, GNOME, Electron, Terraform, etc.

AWARDS/CERTS

🏆 Apache Cassandra™ 3.x Developer Associate
DataStax – 2020

🏆 Eagle Scout Award
Boy Scouts of America – 2014