TRISTAN PARTIN

Staff Software Engineer @ Micron Technology

@ tristan@partin.io   ☎ 281-300-9395   ⚲ 8818 Travis Hills Drive Apt. 722 – Austin, Texas 78735

🔊 tristan.partin.io   in linkedin.com/in/tristan-partin   ⌂ github.com/tristan957   </> sr.ht/~tristan957

EXPERIENCE

Staff Software Engineer
Micron Technology

📅 August 2020 – Present   ⚲ Austin, Texas

- Worked on the Heterogeneous-Memory Storage Engine (HSE) in an effort to make it one of the fastest performing storage engines on the market
- Integrated HSE with various open source storage technologies like MongoDB, MariaDB, and Ceph
- Designed language bindings to interact with HSE

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