TRISTAN PARTIN

Senior 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

Senior 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

- An embeddable key-value store designed for SSDs based on NAND flash or persistent memory through optimizing performance and endurance by orchestrating data placement across DRAM and multiple classes of SSDs or other 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, Solus

- 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