TRISTAN PARTIN

Software Developer @ Expero

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EXPERIENCE

Software Developer

Expero

July 2019 – Present Austin, Texas

- Assisting in abstracting a collection of 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

Lead Developer

MYMathApps

May 2019 – Present College Station, Texas

- Leading a team of college students to create a store-front for selling interactive online math content using TypeScript, React, and NestJS
- Volunteering under a professor in the Department of Mathematics at Texas A&M University

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 GPA: 3.21

SKILLS

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

PROJECTS

Harvest Almanac

SourceHut://~tristan957/harvest-almanac

- Harvest client written in C and GTK for Linux, aiming to bring the features of first-party apps to Linux

Harvest-GLib

SourceHut://~tristan957/harvest-glib

- GLib-based C library for interacting with the Harvest API

The Learning Little Toaster Control Panel

SourceHut://~tristan957/tllt-cp

- Application and driver using C, GTK, and a machine-learning service to operate a toaster oven

Various Open Source Contributions

GitHub, GNOME, Solus

- My open-source contributions include organization and technologies like GNOME, Solus, Electron, Terraform, etc.

AWARDS/CERTS

Apache Cassandra™ 3.x Developer Associate
DataStax – 2020

Certified Apache Kafka Developer
Confluent – 2019

Eagle Scout Award
Boy Scouts of America – 2014