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**Due to the COVID-19 pandemic, I am looking for remote full-time software development opportunities while currently in Austin.**

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My passion is to use my knowledge of science and computation to solve difficult customer problems, optimize complex networks, and to perform systems and data analysis to determine what the needs of a business are. I have worked in both small and large teams using Agile, and I want to use my experience to produce secure and scalable systems that are transparent and robustly designed to encourage trust and stability in the industry.

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## **Employment**

### **Everi Digital (June 2021 – Present)**

- Implemented reports to calculate data statistics over custom time ranges with caching
- Upgraded Java-based web services to a more modern version of Spring Framework & Gradle
- Implemented web filters using Spring Cloud Gateway to fulfill the need for partners to be able to change their CORS configuration without deploying
- Used Amazon S3 API to automate updating CORS configuration for S3 buckets
- Created unit tests to accurately describe and fix subtle bugs, which required mocking calls to services for which there was only manual tests
- Contributed work done on my own time to improve the local development process

### **VisionWeb (April 2020 – December 2020)**

- Upgraded legacy C# .NET 2 code to .NET 3.1 to add health checks and monitoring for Docker containers in Kubernetes clusters
- Used RabbitMQ and NServiceBus in C# to improve the ETL process when communicating with suppliers' differing order formats
- Developed JavaScript and ASP.NET features to improve the administration tool
- Managed IIS deploys in the cloud with Team Foundation Server, Make, and debugging remotely through Visual Studio

### **TrustRadius (June 2018 – February 2020)**

- Developed a web traffic data report using Postgres, MongoDB and Node.js that involved optimizing deep nested queries, and wrote Python to make it accessible through a Slack bot as well as utilities to assist in parameter construction
- Worked on a React application that managed users of the product and helped the customer success team manage the variety of contracts they offered
- Implemented Single Sign-On for customers to control access to the product using OAuth2 and passport.js

### **Kantar (October 2016 – April 2018)**

- Developed APIs using SQL and C# to implement features for Questionnaire DB (a market research fielding tool) as well as the JavaScript components in the view

- Worked closely with senior developers on DPAT (a replacement system for their survey monitoring data APIs) and configured authentication and key stores in Azure
- Worked on the front-end that would eventually replace the legacy system using Kendo

### Microsoft (summer of 2015)

- Wrote an extension for multi-threaded servers as a part of their data/storage pipeline
- Helped design the data API for a front-end change-log feature integrated into iOS

### Offers.com (summer of 2014)

- Built a Docker container manager using Ruby and AWS for a PHP development pipeline
- Used Ruby libraries such as Fog and Commander to implement resource management and load-balancing into the tool to prevent idle time costs

### NCI Building Systems (summer of 2013)

- Built a web application interfacing with Google Maps for a building code API
- Worked with consultants on a document management system

## Education - The University of Texas at Austin

- Degree: B.S. Computer Science, graduated May 2016
- Notable Courses: Data Structures, Honors Computer Architecture, Honors Operating Systems, Autonomous Intelligent Robotics, Programming Languages, Compilers, Security and Privacy, Mobile App Dev
- Other studies: abstract mathematics, physics, ethics, rhetorical and technical writing

### Skills

- Linux and Windows cloud deployment
- Java, C#, Ruby & Python backend experience
- JavaScript frameworks including jQuery, Kendo & React
- Setting up development environments that are compatible across OS distributions
- Debugging and analysis of system performance and design

### Projects

- Static website development using Packer and NPM
- Textbook marketplace Android app
- Weather balloon data collection system
- FPGA synth app using Verilog on an instruction set architecture that had been created by my peers
- Collision detection & physics simulator app written in Java

### Interests

- Declarative programming for consistent and available concurrent applications
- Optimization and low-power computation
- Designing robust systems to protect against attack and catastrophic failure
- Micromechanical engineering
- Chaos theory applied to biology, ecology & sociology
- Environmentally responsible engineering, community outreach, and ethical data collection