Shrinath Rao

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Outgoing, passionate, and hardworking engineer and designer with a flair for creative programming

Website: https://shrinathrao97.github.io/

Experience

Uhnder Inc., Austin, TX — Visualization Engineer *Nov 2020 - Present*
Disruptive startup bringing radar to the masses with Digital Automotive Radar-on-Chip

- Designed, implemented, and delivered innovative and robust features for ROS data visualization and demos in custom tool "ProViz"
  - Responsible for delivering ProViz releases to a global customer base
  - World-class 3D visualizer for radar and ROS data in a browser setting using regl, React, Node.js and Worldview
  - 3D point cloud data projection onto 2D camera streams to visualize real-world data
  - Implemented map tiling server with a CDN, appropriate shaders, and buffering for visualizing GNSS based map data
  - Built first browser-based ROS bridge record and ROS bag editor and annotator within ProViz using cutting edge file system API with chrome web workers
  - Built a custom camera scripting language using JSON commands for demos
  - Setup Jenkins CI/CD pipeline for team
- Gained experience and expertise with AWS tools and hosting to deliver application to a global customer base
  - CloudFront CDN, load balancing, and Geolocation based routing
- Analyzed and handled large ROS bags and field sensor data using ROS stack
- Owned and delivered internal visualization tool for radar and system validation
  - Development in QT
  - Setup and delivered CI/CD pipeline for project
  - Project management and process compliance

Cadence Design Systems, Austin, TX — Intern *June - Sept 2020*
Leader in EDA and Intelligent System Design delivering hardware, software, and IP for electronic design

- Expanded skill related to CI and testing
- Setup and maintained Buildbot for daily DFT testing
- Interfaced with a build farm using Python/asyncio and Perl to optimize DFT testing
- Acquired experience with RHEL and Linux tools
- Worked in a large legacy C++ codebase
- Gained exposure to multi-threaded programming

Education

Bachelor of Science
Computer Science
University of Texas at Dallas
December 2019

Bachelor of Arts
Arts, Technology, and Emerging Communications (ATEC)
University of Texas at Dallas
December 2019

4+ Years Japanese
Japanese American Society of Greater Austin

Skills

Hard Skills and Tools:
- C++/C, C#, Java, Python, Perl
- HTML, CSS, JavaScript, React, WebGL, regl
- QT
- Unity, Unreal Engine
- Unix + Developer tools
- Maya and Blender
- Photoshop, After Effects, Premiere
- AWS & Cloud Services
- Git, Bitbucket, Mercurial
- Jira and Project Management tools and flow

Axxess Technology Solutions Inc., Richardson, TX — Intern *Aug - Dec 2019*
Leading global technology innovator for healthcare at home solutions

- Developed APIs to integrate home health applications to cloud database servers
- Used RESTful API in a CQRS pattern with Entity Framework and Linq in C#
- Managed sprint, planning, and validating task completion and communicating updates
- Owned delivery and integration of the team's API used in the Axxess stack

Uhnder Inc., Austin, TX — Intern *May - Jul 2017*
Disruptive startup bringing radar to the masses with Digital Automotive Radar-on-Chip

- Responsible for chip testing
- Assisted in chip bring up, validation and characterization of new silicon
- Built a radar module farm for remote developer access and Jenkins interface for Continuous Integration testing
- Implemented API to interface with Thermostream for temperature and voltage tests
- Created shmoo plots and data visualizations for data analysis
- Hands on experience with soldering and other lab work

References and recommendations available on request

Some Projects:
- Third person multiplayer shooter in Unity using C# and PhotonPUN2
- Unity C# platformer using LWRP and FFXIV's Ninja Mechanics
- Recreation of FFXV Warp Strike in UE4 (C++)

Hobbies and Life Interests:
- World Travel
- Boxing (3 years, Amateur Tournaments)
- Brazilian Jiu Jitsu (2 years)
- Languages (Kannada, Japanese and more...)
- Game Design and Graphics
- Music (Vocals & Guitar, Indian classical, Blues and Jazz)
- Skiing

Others:
- U.S Citizen
- Overseas Citizen of India
- Open to relocation including international