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Objective

Seeking a Senior Software Engineer position where I can accomplish career milestones and pursue knowledge with a passion to grow. I would to get involved in the emergency response and services industry.

Bachelor of Computer Science, Minor in GIS - University of North Carolina, Chapel Hill, NC 2018 - 2021

Software Skills (Soft Skills): Adaptability, Creativity, Deductive/Inductive Reasoning, Honesty, Teamwork

JavaScript(4 v)/TypeScript(3 v)

Other Languages

Languages	· · · · · ·	narm - Vue (2 y)	React (1 y), Angular press, jQuery, Node, D	· · · · · · · · · · · · · · · · · · ·
*university *professional *both	- GDAL,(Geo)Dja	ngo – Webpack,	, Babel, JSDoc, ESLint	, Jest - C#,C++ (2 y), R (1 y) Leaflet - WebAssembly (1 y)
Experienced With	+Pinia - React +Redux	Backend - PostgreSQL - ASP.NET Core - SQLite - Apache, Nginx - Client-side DBs	Dev Ops - Git/Hub/Lab - Jira+Confluence - Gradle+Maven - CMake - Docker+Kubernete	Platforms/Services - ArcMap, ArcGIS, QGIS - Potree, Mapbox GL, Cesium - Android (Java) - Azure (AKS), AWS (S3) - NOAA, USGS, Public GIS - Cloudflare, Salesforce

Professional Experience

Python (4 v)

Mapping Software Engineer @ DEKA Research & Development (Manchester, NH) Sept 2021 - Aug 2023

- ullet As a team of 2 engineers, we designed and developed point cloud processing tasks using PCL and created DAGs with PDAL pipelines to be deployed with Airflow, then be delivered to tactical project teams for field tests. To handle billions of points we parallelized tasks and leveraged cloud storage & GPUs for memory & computation. Algorithms & Data Structures: Voxels, K-D Tree, Octree, Occupancy Grid, Global/Local Registration
- I maintained integration test suites in *Groovy* using *Spock* for relational spatial database for multiple releases.
 I was tasked with documenting and overseeing the use of COTS software for mobile mapping processing and
- I was tasked with documenting and overseeing the use of CO1S software for mobile mapping processing and integrating into the existing pipeline. 3 coworkers and I collectively processed over 25 sq. miles of diverse terrains.
 During my 2nd year, I was moved to a team of five engineers building a full-stack web app from scratch. We developed the front-end using Vue, back-end using ASP.NET, and production branches are deployed on Kubernetes clusters then a cloud engineer manages on AKS enabled by Terraform. Features included video/audio streaming, a real-time alert system, interactive web maps, on-demand routing & route validation, unit & integration test suites, and functional mgmt. Technologies: Linux/GNU, WebDriver, WebSocket, WebRTC, SLAM, Mobile Mapping System, GNSS-Aided INS, VSCode, PyCharm

Customer Success Intern @ nCino, inc. (Wilmington, NC) Jun 2019 - Sept 2019

- Professional experience mentored by a variety of employees from customer success, marketing, & product dev.
- Tasked with learning domain level knowledge of how nCino & Salesforce is implemented. Work included writing test suites, consumer loan form generation, use case testing, bug fixes, and writing custom Apex & Visualforce logic.
- Contributed to customer support on nCino's consumer loan origination system and involved in tech consultations. Technologies: Diagrams, Apex Tests & Triggers, Platform APIs, Consumer Loans, SOQL/SOSL, Visualforce, Trailhead

IT Intern & Database Admin @ Hardee Hunt & Williams (Wrightsville Beach, NC) Jan 2014 - Jun 2016

• Through John T. Hoggard High School, I initiated a CTE Internship for experiential credit hours managing the mailing list database and use graphic design softwares and tools to publish and market flyers, postcards, and more. Technologies: Mail Management, Adobe Photoshop/InDesign, CSV, Microsoft Excel, Python Scripting, PowerShell

Projects & Involvement & Interests

UNC-CH Software Engineering Lab: Neural Network Playground - 2020

- On team of 4 students we scripted data visualization HTML reports for UNC-CH graduate research analysis.
- SubFlow: A Dynamic Induced-Subgraph Strategy Toward Real-Time DNN Inference and Training
- Fast and Scalable In-memory Deep Multitask Learning via Neural Weight Virtualization (Lee, Seulki & Nirjon, Shahriar, ed.) Technologies: D3.js, React, Figma, CUDA, TensorFlow, Jira

UNC-CH Mobile Sensing & Inference Systems - 2020

• For the final project I was tasked to develop an mobile app that implements a pre-trained image classification model, an embedded database, and must run a audio player in the background and track & visualize user data.

Technologies: Android Studio, SQLite, TensorFlow Lite, Gradle, Adapter

Carolina AR/VR: Contributions to Franklin Street AR Art Gallery - 2020

UNC Web Development Club: Contributions to Headless CMS for Organization site - 2020

Other: Intermediate German Speaker, Sigma Phi Epsilon, FOSS+Public Benefit, Dog(Pug), Retro Arcade Games, Cooking, Ocean