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Objective

Seeking a ... position where my experience in ...
& cloud ...

Education

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

Programming Languages *university *professional *both	Python (4 y)	JavaScript(4 y)/TypeScript(3 y)	Other Languages
	– Anaconda, PyCharm	– Vue (2 y), React (2 y), Angular (1 y)	– HTML & SCSS/CSS(4 y.)
	– arcpy, pyqgis, pyqt	– Next.js, Express, jQuery, Node, D3.js	– Java (3 y), SQL(3 y)
	– GDAL, Pandas,Django	– Webpack, Babel, JSDoc, ESLint, Jest	– C#,C++ (1 y), R (1 y)
	– unittest, pytest,sphinx	– SSR, CQRS, Google Analytics, Leaflet	– WebAssembly (1 y)

Experienced With	Frontend	Backend	Dev Ops	Platforms/Services
	–Nuxt +Pinia	– PostgreSQL	– Git/Hub/Lab	– ArcMap, ArcGIS, QGIS
	– React +Redux	– ASP.NET	– Jira+Confluence	– Potree, Mapbox, Cesium
	– Angular +NgRx	– SQLite	– Gradle+Maven	– Android (Java)
		– Apache, Nginx	– CMake	– Azure (AKS), AWS (S3)
		– Client-side DBs	– Docker+Kubernetes	– NOAA, USGS, Public GIS
				– Cloudflare, WordPress

Professional Experience

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

● As a team of two engineers, we designed, developed, and scaled ETL pipelines to process (billions of points) 3D *LiDAR* scans of deployment regions of an inner suburban city. (Airflow, PCL, PDAL, *SFTP*, *Determined*AI)
Algorithms included: *SLAM, Aided INS, Voxels, K-Dtrees, Octrees, Filters, Colorization, Multiprocessing*
● Apart of a team of six engineers, we developed and deployed a secure web app to support client access to 20**+** autonomous robot real-time sensing and inference data transported through cloud platform to dashboard feed. (*Nuxt, C#.NET, Docker, Kubernetes*) *Unit*, *Snapshot*, *Integration* Tests: (*Jest, Mocha, WebDriverIO*)
Technologies : Linux · Microservices · PostGIS · Teleops · Dashboard · Leaflet · WebSockets · WebRTC · FFmpeg

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

● Professional experience mentored by a variety of employees from customer succcess, marketing, & product dev.
● Tasked with learning domain level knowledge of how *nCino* & *Salesforce* is implemented.
● Work included writing *unit tests*, *form automation*, *manual testing*, supporting *bug fixes*, writing *custom logic* & *actions*, & build *user interfaces*; also provide direct consultation to clients and team.
Technologies : Apex Tests & Triggers · Platform APIs · Graphic Design · SOQL/SOSL · Visualforce · Architecture Diagrams

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 · CSV · Microsoft Excel · Python Scripting · PowerShell

Projects & Skills & 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 (*D3.js* , *React*, *Figma*, *CUDA*, *TensorFlow*)
- Fast and Scalable In-memory Deep Multitask Learning via Neural Weight Virtualization (Lee, Seulki & Nirjon, Shahriar, ed.)

Carolina AR/VR: FranklinARGallery - 2020

● This web application brings mobile AR art gallery experiences to participating businesses in Chapel Hill, NC.
(*React*, *Firebase*, *Node.js* , *AR.js*, *JSON*, QR code)

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.
(Android Studio, *SQLite*, *TensorFlowLite*, *Gradle*)

UNC-CH Programming Languages - 2020

● Over the semester, we developed a Java application and built & trained a Weka ML model for determining safe social distancing and then rewrote logic and inferencing system to translate to a...
Lisp Interpreter => Lazy Lisp Interpreter in Prolog => Prolog Interpretor in Standard ML
(*LispLambda*, *SmallTalk*, *Functional*, *Declarative*, *Procedural*, and *Compiler* Languages)

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