Sarab Bedi

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SUMMARY

Highly motivated software engineer with experience in developing geospatial infrastructures and cloud based deployments. Proven track record in problem-solving and a keen desire for continuous learning, currently seeking roles that will further hone my skills, in a progressive innovative organization.

WORK EXPERIENCE

Xcellent Technology Solutions   **May 2022 –Present**
Application Engineer
- Work as part of a 6 member AGILE team that manages 30+ geospatial services, 20+ web applications, multiple REST API's, a collection of serverless data processing pipelines, hundreds of TB of both raster and vector datasets and an enterprise SaaS solution for log analysis and collection of usage metrics for The National Map.
- Innovated a multi-stack IaC strategy using the AWS Cloud Development Kit (CDK) enhancing deployment agility of our cloud applications and transitioned away from a monolithic approach.
- Optimized geospatial service infrastructure, achieving a 99.72% reduction in scale-out latency, reducing scaling time from an average of 30 minutes to mere seconds.
- Developed GitLab CI/CD pipelines to automate the deployment of our public-facing applications into AWS ensuring efficient delivery of services to thousands of users.

Xcellent Technology Solutions   **May 2021 – May 2022**
GIS Web Developer
- Worked on developing a full stack geospatial application using a modern technological stack including React, Node.js, GraphQL, PostgreSQL and Prisma ORM.
- Designed a seamless UI/UX allowing users to upload, view and download geospatial datasets that are reviewed by USGS staff to be integrated into the National Trails Datasets (NTD).
- Implemented secure open authentication (Oauth) using a federal OIDC provider, Login.gov.
- Created python scripts on the backend for processing and extracting information from various geospatial formats including GDB's and shapefiles.

EDUCATION

UNC Charlotte   **December, 2019**
Bachelors of Science, Geology   *Charlotte, NC*

NC State University   **December, 2020**
Post Graduate Certificate, GIS

CERTIFICATIONS & SKILLS

- **Certifications:** AWS Certified Cloud Practitioner, Public Trust Clearance (NACI w/ inquiries)
- **Skills :** React, S3, CDK, GitLab, CI/CD, Docker, Linux, Bash Scripting, Node.js, JavaScript, TypeScript, Python, ArcMap, GraphQL, REST, Prisma, PostgreSQL, ArcGIS Server, Lambda, SumoLogic, EC2, Step Functions, ArcGIS API for JavaScript