

Sean Paul Wilson

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EXPERIENCE

Software Engineer - Cloud Applications

April 2021 – July 2021

Thermopylae Sciences + Technology (Google Earth Enterprise Partner)

Seattle, WA (remote)

- Developed GIS data ingestion pipelines in AWS to process, record and build geospatial data for Google Earth
- Worked on full-stack cloud applications that automated building Google Earth Globes. Utilized multiple AWS services including: Lambda, EC2, EBS, ECS, S3, DynamoDB, Cloudformation, Route53 and others
- Developed in Python, Golang, used Vue.js for front-ends, Git for version control, and automated building and testing through shell scripting and CI/CD tools

Software Engineer Intern

June 2020 – March 2021

Five Talent Software Inc. - Effectual Inc. (AWS Premier Consulting Partner)

Bend, OR

- Worked directly with clients on rearchitecting software solutions for the AWS cloud following AWS best practices, as well as developing out new feature requests and configuring CICD pipelines.
- Developed full-stack web applications and RESTful APIs in AWS utilizing technologies such as NodeJS, React, Angular, Serverless, MongoDB, and Docker while following a strict development life-cycle process.
- Beta-tested new AWS SDK features while reporting to senior AWS engineers.

Software Developer Intern

June 2019 – Sep. 2019

Novunex GmbH. (Business Process Mgmt. SaaS)

Klagenfurt, Austria

- Worked with VP of Operations building custom QMS software for a wide variety of business applications
- Wrote custom JavaScript, SQL and integrated API's into SaaS solution to satisfy feature requests

EDUCATION AND CERTIFICATIONS

University of Oregon

Eugene, OR

Bachelor of Science in Computer Science

Sep. 2016 – March 2021

Bachelor of Science in Spatial Data Science

AWS Certified Cloud Practitioner

Expires July 2023

SELECTED PROJECTS

Five Talent Resource Dashboard | NodeJS, Serverless, Lambda, React, OAuth

June 2020 – Sep. 2020

- Full-stack web app used to improve efficiency of project managers accessing metrics on personnel/project status
- Developed RESTful APIs (AWS Lambda functions (NodeJS, SLS)) that used 3rd-party project management software API's to compile custom data structures of company data not exposed on PM software platform
- Built React front-end which called custom-built Lambda API's to present data in an interactive table using TailwindCSS/Material-UI. SSO and OAuth2 functionality implemented using Okta React SDK

SiteStall | JS, HTML/CSS, Mozilla API's

Feb. 2020 – March 2020

- Firefox extension designed to improve concentration by temporarily blocking distractions
- Collaborative group project with a team of 4 other developers using Mozilla API's to interact with browser

BreadCrumb | Java, Google Maps API

June 2019 – July 2019

- Android app developed in Java using Google Maps API. Shows trail of where user has traveled on custom basemap

Assorted Data Visualization Projects | Python, JS(D3, SVG), GDAL, Leaflet/Folium

Jan. 2019 – Present

- Through my second degree, and interest in climate change, I've developed multiple Earth data vis. projects
- Visualization topics include: global sea surface temperature change, annual U.S. wildfire frequency and geographic distribution of different global environmental and socioeconomic variables

TECHNICAL SKILLS

Languages: Python, Golang, JS, Java, C/C++, HTML/CSS, SQL

Front-end: React, Vue.js, Tailwind, Material, D3.js/SVG, QT, Google Analytics

Back-end: NodeJS, Serverless, Docker, MongoDB, REST, Flask, SQLite, Linux

Cloud/Tools: AWS: (Lambda, EC2, ECS, API Gateway, S3, RDS, Dynamo, Cloudformation, Route53), Git, Postman

Data Science/GIS: Numpy, Pandas, SciPy, Matplotlib, Jupyter, GDAL, ArcMap/ArcGIS, Leaflet, Folium

Away from keyboard: Backpacking the Pacific Northwest in the Summer, Backcountry Skiing in the Winter