

Michael S. Yun

Full Stack Developer

[Github](#) | [LinkedIn](#) | yun.michael.ds@gmail.com | [Developer Portfolio](#)

Centreville, VA | 703-577-6833

Work Experience

SAT/AP College Prep Tutor

Fairfax, Virginia

Elite Prep

05/2023 – Current

- Mentor High School students and provide guidance on a wide range of career paths and opportunities.
- Design and deliver daily presentations, classwork, and homework for classes ranging from 1 to 10 students.
- Specialize in academic subjects including SAT Math, Calculus (1-3), Computer Science, Statistics

Full Stack Developer (JavaScript/React/AWS)

Herndon, Virginia

AttainX, Inc.

08/2021 – 07/2022

- Designed and deployed four new serverless architecture web applications using ReactJS, RESTful APIs, AWS microservices with Node.js back end focusing on speed, scalability, and costs. (S3, DynamoDB, Lambda, API Gateway, IAM, CloudWatch) and prepared release of software releases.
- Designed KPI dashboards using MaterialUI and D3.js, featuring 10+ automated data visualization metrics, and optimized legacy systems and data pipelines, improving project manager efficiency by 30%.
- Implemented secure role-based access control (RBAC) for a SaaS project using AWS Cognito and OAuth, ensuring robust user authentication and authorization while meeting industry security standards.
- Optimized CI/CD pipelines using AWS CodeDeploy and AWS CodePipeline to streamline application deployment to enhance end-to-end development and supported formal testing processes with Jest.
- Participated in 40+ task orders, user stories on Agile teams and attended 200+ daily standups, sprint demos.
- Wrote technical documentation and design specifications for code and APIs via Jira and Confluence.

Projects

Genshin Impact Web App

Centreville, Virginia

[Sumeru.dev](#)

07/2024 – 12/2024

- Built and deployed a Single Page Application (SPA) web app at [sumeru.dev](#) for a popular game with ReactJS, Tailwind CSS, and GitHub Pages.
- Contributed to third party API through standard Git versioning workflow, Pull Requests and Code Reviews and documented schemas for creating and querying data.
- Implemented features including responsive design ensuring usability across different devices/form factors.
- Designed and prototyped UI/UX mockups using Figma and user-centered design principles

ML/AI Statistical Consultant, STAT 427, STAT 430

Centreville, Virginia

University of Illinois

01/2021 – 05/2021

- Built an Autonomous Lane Detection system using Convolutional Neural Networks (CNNs) and libraries like Keras and PyTorch, achieving a frequency-weighted IoU of 0.9985.
- Applied supervised machine learning techniques to perform image segmentation on public driving footage.
- Provided statistical guidance to clients, focusing on regression testing, hypothesis testing, data validation, correlation analysis, sampling methods, variable transformation, and decision trees.
- Applied established libraries like dplyr, tidyverse, ggplot2, corrplot, and rpart into data visualization insights.
- Utilized R, RStudio, RShiny, Jupyter Notebooks, Azure DataBricks for data extraction, analysis, and modeling.

Skills

- **Languages:** JavaScript (ReactJS, Node.js, TypeScript), C#, Python, Java, SQL (PostgreSQL, MySQL), R
- **Frameworks & Libraries:** ReactJS, Angular, .NET, Redux, jQuery, Jest, Spring Boot, RESTful APIs, JSON
- **Cloud Technologies:** AWS (S3, Lambda, IAM, API Gateway, DynamoDB, Cognito, CloudWatch, Amplify)
- **Tools & Methodologies:** Power BI, Tableau, Docker, Git, Agile, Scrum, Trello, Atlassian (Jira, Confluence)
- **Certifications:** AWS Solutions Architect and Developer's Associate (In progress)

Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Statistics (with Computer Science focus)