

# Michael S. Yun

## Software Engineer

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Centreville, VA | 703-577-6833

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### 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)
- Designed KPI dashboards using MaterialUI and D3.js, featuring 10+ automated data visualization metrics, and optimized 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 and enhance development efficiency and Jest for unit testing.
- Participated in 40+ task orders, user stories on Agile teams and attended 200+ daily standups, sprint demos
- Wrote technical documentation for code and APIs via Jira and Confluence.

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### Projects

#### Genshin Impact Web App

Centreville, Virginia

[Sumeru.dev](https://sumeru.dev)

07/2024 – 12/2024

- Built and deployed a Single Page Application (SPA) web app at [sumeru.dev](https://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

#### Statistical Consultant, STAT 427, STAT 443

Centreville, Virginia

University of Illinois

01/2021 – 05/2021

- 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, corplot, and rpart into data visualization insights.
- Communicated complex analysis in a digestible way for technical and non-technical audiences.
- Utilized R, RStudio, RShiny, Jupyter Notebooks, Azure DataBricks for data extraction, analysis, and modeling.

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### Skills

- **Languages:** JavaScript (ReactJS, Node.js, TypeScript), C#, Python, Java, SQL (PostgreSQL, MySQL), R
- **Frameworks & Libraries:** ReactJS, AngularJS, .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)

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### Education

#### University of Illinois at Urbana-Champaign

Major GPA: 3.69

Bachelor of Science in Statistics (with Computer Science focus)

Dean's List (Fall 2019 & Spring 2020)

University of Illinois at Urbana-Champaign Data Science Certificate

Graduated May 2021