av Aidan Vancil

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Technical Skills

- **Languages:** Python, Javascript, SQL, C++, Bash, CSS, HTML5, JSON
- **APIs:** RESTful, GraphQL, Insomnia, ReadyAPI, Postman
- **Methodologies:** Agile, Scrum
- **Security:** Cryptography, Burp Suite, MITRE ATT&CK, Linux
- **DevOps:** Dockers, Kubernetes (K8), Ansible, Terraform, CI/CD, Github, Gitlab, Git

- **Databases:** MongoDB, MySQL, DynamoDB, PostgreSQL
- **Frameworks:** Django, React.js, React Native, Express.js, Next.js, Node.js, Typescript, TailwindCSS, FastAPI, Bootstrap, SCSS,
- **Other:** Object-Oriented Programming, Computer Vision (OpenCV)
- **Computing:** Amazon Web Services (AWS), UI/UX (Figma), Version Control, Test-Driven Development (TDD), ELK Stack, Data Science

Education

The University of Nevada, Reno (UNR): 2022 - 2024 - Bachelor's of Computer Science & Engineering (ABET Institution)
~Minor: Mathematics, Dean's List: x2, 4.00 GPA, Projected Summa Cum Laude & Top 1% (Projected Grad: Spring 2024)

The University of Nevada, Reno: 2023 - Nevada IMBRE Machine Learning Bootcamp
~Stack/Tools: numpy, pandas, scikit, Python

Truckee Meadows Community College / Magnet High School (TMCC), Reno, NV: 2019 - 2022 - Associate of Science
~Summa Cum Laude, Dean's List x4, 3.98 GPA, Declared Valedictorian (1/91 Students)

Course Work

Programming Language Implementations (CS 326)
Analysis of Algorithms (CS 477)
Database Management System (CS457)

Computer Networking (CPE 400)
Software Engineering (CS 425)
Artificial Intelligence (CS 482)

Working Experience

Cloud Solutions Engineer Intern @ **Amazon Web Services (AWS)**, WA, Seattle, May 2023 - August 2023

- **Stack/Tools:** Python, GraphQL APIs, RESTful APIs, AWS
- Developed 10+ JSON IAM policies and successfully delivered 20+ Lambda functions allowing for serverless, cost-optimized, and stable applications.
- Worked with 8 teams to adequately design and implement system architectures for specific client scenarios.
- Refactored 3 previous branch releases to ensure maintainability through code complexity reductions by ~20% (Istanbul), resulting in shorter pipeline times team-wide.
- Obtained **AWS Certified Cloud Practitioner** + **Solutions Architect Associates** certificates within one month.

Software Developer Supported By: **Google** @ Techwise (i.e. Talentsprint) March 2022 - August 2023

- **Stack/Tools:** CSS, Python, Git, HTML5, React.js, Next.js, PostgreSQL, Express.js, Node.js, Postman, Insomnia, mySQL, Flask, MongoDB
- Selected as 1 of 120 candidates nationwide for this rigorous 18-month software engineering program for high-achieving diverse talent based on leadership potential, academic success, and technical skills.
- Overseen implementing best coding practices from the mentoring of a Google Software Engineer.

Database Engineer @ **STIHL** *National Air Races*, NV, Reno, September 2021

- **Stack/Tools:** MySQL, SQL, Plugins
- One of two people who built a POS database for 56,000+ spectators. Successfully collaborated with a partner to create a highly efficient database instance, normalized data, and ensured minimal downtime through fault-tolerant replicas and disaster-recovery plans, resulting in over $700,000+ in sales.

Frontend Software Developer + Marketing Internship @ *TMCC*, NV, Reno, June 2021 - August 2021

- **Stack/Tools:** HTML5, CSS, Javascript, Embedded Javascript Templates
- Pushed Handshake's Single-Sign-On (SSO) and API to TMCC's own site as seen via the domain of the deployment, by collaborating with TMCC's Information Technology department to import student data.
- Accelerated the growth of student sign-ups from 80 to 1,200 over two weeks (1400% increase), as monitored from Handshake's analytics page, by dispatching email campaigns and features on EDAWN while also being a public speaker for four of TMCC's *Handshake* conferences.

Projects

Mezzo, Musical + Social Platform (Github)

- **Stack/Tools:** JSON Web Tokens, MongoDB, React, Express, Node.js, Spotify API (10+ Endpoints), Postman, Sessions, Figma, k6
- Led a team of 3 to develop a musical application contributing to ~46% of the codebase, and received praise from 30+ industry professionals.
- Optimized high-traffic web app with request caching, achieving an 80% cache hit rate, 50% lower server load, and improved Time to First Byte (TTFB). Enhanced system performance, scalability, and reliability.
- Contributed to 34+ pull requests and code reviews via Github.

WeTour @ LA Hacks 2023, Tourism App (Github)

- **Stack/Tools:** Django, FastAPI, Twilio, Google Maps, MapQuest APIs, TailwindCSS, Postman, CI/CD, K8
- Directed a group of 3 in creating WeTour, a web-based app, showcased to 20 senior software engineers and over 400 people.
- Reduced CI/CD pipeline time by ~20% through smaller commits and incremental builds + resolved dependency conflicts via containerization.

maskr, Generate AI Tool @ UNR Hackathon 2023 (Github)

- **Stack/Tools:** Django, OpenAI API, TailwindCSS, SQL, Figma, Insomnia, OpenCV, Matplot, numpy, Meta AI | Segment Anything
- Took charge of a team of 3 to develop a web app powered by AI.
- Identified and fixed 10+ bugs, resulting in improved application stability.
- Demonstrated strong technical skills by contributing ~97% of the code and providing nearly 20 hours of mentorship in the span of 48 hours.

Synonymy, Semantic Guessing Game (Github)

- **Stack/Tools:** Django, Word2Vec, Gensim, Natural Language Processing (NLP), TailwindCSS, Figma, Javascript, Locust, PostgreSQL
- Reduced latency (ms) by 300% by hyper-tuning the NLP model, as measured from ~1000 requests by using Locust's load testing at 250 requests per second (RPS).
- Decreased API costs by 20% by implementing rate throttling and debouncing techniques.

Awards/Certifications

- $5,000 Google: TechWise, "Future World-Class Software Engineer."
- National Cyber League, 2020 Fall, 9th place out of 922 teams.
- $32,000 Presidential Scholarship.
- $5,000 AFCEA STEM Majors Cyber Security Scholarship.

- $200, 2nd out of 90 in UNR HackerRank Programming Competition.
- $200 Nevada IMBRE Machine Learning Scholarship
- **2nd out of 29 participants in Amazon.com internal hackathon.**
- $400, 2nd out of 30 teams in UNR Hackathon for Machine Learning

Leadership

Vice-President, NCC [UNR, *Nevada Cyber Club* (2019, December - 2022, April)]
Member, UNR/CS [UNR, *Nevada Computer Science Asc.* (2022, August - Present)]
Member, UNR/ACM [UNR, *Computer Science Asc. of Machinery* (2022, August - Present)]
Software Engineer TIP Fellow, Edlyft [Technical Interview Prep (TIP), (2023, August - Present)]