🔲 Aidan Vancil

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Technical Skills

- **Languages:** Python, Javascript, SQL, C++, Bash, CSS, HTML5, JSON
- **Libraries:** numpy, scikit, pandas, regex, pytest, nltk, gensim, opencv
- **APIs:** RESTful (*fluent*), GraphQL (*basic*), Insomnia, ReadyAPI, Postman
- **Methodologies:** Agile (*familiar*) Scrum (*familiar*)
- **Security:** Cryptography, Burp Suite, MITRE ATT&CK, Linux
- **DevOps:** Dockers, Kubernetes, Ansible, Terraform, CI/CD, Github, Gitlab

- **Databases:** MongoDB, MySQL, DynamoDB
- **Frameworks:** Django, React, Express.js, Next.js, Node.js, TailwindCSS, FastAPI, Bootstrap, SCSS
- **Other:** Object-Oriented Programming, Computer Vision, Cloud Computing (AWS), UI/UX (Figma), Version Control, Test-Driven Development, ELK Stack

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

Truckee Meadows Community College / Magnet High School (TMCC), Reno, NV: 2019 - 2022 - Associate's 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 (*fluent*), JSON (*fluent*)
- Developed virtual JSON IAM policies, designed and implemented larger VPC gateways and subnets, and successfully delivered a range of AWS (Python SDK) Lambda functions, allowing applications to have more scalability. These functions effectively monitored billing and resource alerts for EC2 instances and load balancing, resulting in potential cost savings of over $1,000 per month by optimizing hardware usage.
- AWS Certified Cloud Practitioner (2023 - 2026) + Solutions Architect Associate (2023 - 2026)

Software Developer Supported By: **Google** @ Techwise (i.e. Talentsprint) March 2022 - August 2023
- **Stack/Tools:** CSS (*fluent*), Python (*fluent*), Ruby (*familiar*), Git (*intermediate*), HTML5 (*fluent*), Javascript (*intermediate*), Express (*intermediate*), Node.js (*intermediate*), Postman, Insomnia, mySQL, Flask, MongoDB
- Selected as one of 5,000 candidates nationwide for this rigorous 18-month software engineering program for high-achieving diverse talent based on leadership potential, academic success, and technical skills.

IT Academic Technician Intern → **Part-Time** @ *TMCC*, NV, Reno, October 2021 - May 2022
- **Stack/Tools:** Bash (*intermediate*), Batch (*prior experience*)
- Surveyed over 1,800+ computers over 4 networks as measured by active directory by monitoring the computers through virtual servers, diagnostic tools, and auditing. Resolved many network issues, as tested per DHCP, by validating their Power-over-Ethernet (PoE) and automating reportings by uploading them to a cloud service.

Database Engineer @ **STIHL** National Air Races, NV, Reno, September 2021
- **Stack/Tools:** MySQL, SQL (*intermediate*)
- 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, meticulously 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 (*fluent*), CSS (*fluent*), Javascript (*intermediate*), Embedded Javascript Templates (*familiar*)
- 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 features on EDAWN whilst also being a public speaker for four of TMCC's administrative council conferences regarding the *Handshake* job board.

Projects

Mezzo, Musical + Social Platform (Github)
- **Stack/Tools:** JSON Web Tokens, MongoDB, React, Express, Node.js, Spotify API (10+ Endpoints), Postman, Sessions, Figma, CI/CD
- **Overview:** Musical application that helps users connect with their favorite artists. With Mezzo, users can discover new music and find the hottest songs.

WeTour, Tourism App (Github)
- **Stack/Tools:** Django + FastAPI, Twilio + Google Maps + MapQuest APIs, TailwindCSS, Postman, CI/CD
- **Overview:** A web-based application that handles the unknown of a new city for users. WeTour helps users plan and provisions a tour guide for their vacation to ensure they see all the secrets of the city. Completed within 48 hours at LA Hacks 2023.

maskr, Generate AI Tool (Github)
- **Stack/Tools:** Django, OpenAI API, TailwindCSS, SQL, Figma, Insomnia, OpenCV, Matplot, numpy, Meta AI | Segment Anything
- **Overview:** Web app based on an ML model with three main features: image generation, editing, and variations. This mobile-friendly app utilizes a mobile-first design with multiple breakpoints and clean TailwindCSS animations.

Synonymy, Semantic Guessing Game (Github)
- **Stack/Tools:** Django, Word2Vec, Gensim, NLP, TailwindCSS, Figma, Javascript
- **Overview:** Web-based game that has users guess the daily secret word based on how semantically close their other guesses are. This game relies on a hot/cold aspect to help users make a reliable choice.

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
- Zoho Catalyst: Hackathon Qualifier by engineering an agile B2B tool.
- $400, 2nd out of 30 teams in UNR Hackathon for Machine Learning

Association

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)]