ANAKIN TROTTER

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Full Stack and ML/AI Software Engineer with 3+ years of professional experience. Holds an active *Secret Security Clearance*.

EDUCATION

University of California - Los Angeles   **September 2021 - June 2024**
Bachelor's, Linguistics and Computer Science   *GPA: 3.8*
- **Relevant Courses:** Data Structures, Algorithms, Computer Architecture, Software Construction, Computational Linguistics
- **Honors:** Dean's Honors List, Upsilon Pi Epsilon (Computer Science Honors Society)

EXPERIENCE

Fox Sports   **Los Angeles, CA, USA**
Software Engineer   *September 2023 - Present*
- Integrating generative text-to-speech AI with an LLM to modify tone based on context.
- Running an experiment to compare the performance of 6 end-to-end TTS models.

Amazon   **Sunnyvale, CA, USA**
Software Dev Engineer Intern   *February 2023 - September 2023*
- Built tooling to quantitatively assess the performance of different large language model inputs.
- Created a 100% CI/CD flexible chat application to interface with any number of LLMs or devices.
- Utilized Next.js, Python, FastAPI, GraphQL, DynamoDB, AppSync, S3, CloudFront, and Docker.

Indago Solutions   **Los Angeles, CA, USA**
Software Engineer Intern   *March 2022 - June 2022*
- Implemented modular GEDCOM parser and unit tests based on GEDCOM 5.5.5 specification.
- Designed a GEDCOM to JSON converter to efficiently access family tree data on frontend.
- Utilized Java with Maven for dependency management.

University of California - Los Angeles   **Los Angeles, CA, USA**
Full Stack Developer   *November 2021 - March 2022*
- Implemented advanced database searching tools with rich UI based on client requirements.
- Fixed bugs and provided support services for the web application speeding up queries over 50%.
- Utilized LAMP (Linux, Apache, MySQL, PHP) stack and HTML/CSS/JavaScript.

Association for Computing Machinery   **Los Angeles, CA, USA**
Hack Committee Officer   *November 2021 - Present*
- Helped coordinate Hack Sprint workshops to teach 500+ students about mobile development.
- Worked with officers to plan Hack on the Hill, a 200+ person beginner-oriented hackathon.
- Utilized HTML/CSS, JavaScript, React, and Gatsby to create two user-facing websites.

California Army National Guard   **Manhattan Beach, CA, USA**
Information Technology Specialist   *August 2021 - Present*
- Created, managed, and hardened networks to meet NIST security standards.
- Configured Windows Server AD DS and security settings on cloud using vRealize.
- Utilized Packet Tracer to design networks supporting VLAN, DHCP, OSPF, and SSH.

Plum Fairy Acupuncture Health Center   **San Jose, CA, USA**
Web Developer   *June 2020 - May 2021*
- Built and maintained digital storage solutions for 700+ patient records.
- Translated complex technical issues into digestible language for non-technical users.
- Updated website to reflect changes to pricing and services offered.

PROJECTS

Gender Recognition AI
- Developed a neural network to predict a person's gender based off a photo with 96% accuracy.
- Processed 40,000+ photos of faces labeled by gender from the IMDB wiki into gradient maps for training.
- Utilized Python, TensorFlow, OpenCV, Pandas, scikit-learn, and numpy.

Hack on the Hill Website
- Fetched YAML data using GraphQL to create a paginated gallery page of past Hack on the Hill winners.
- Improved initial loading times by over 30% through using lazy loading for gallery slideshow images.
- Utilized React, Material UI, YAML, GraphQL, and Gatsby.

SKILLS

Skills: Agile, AWS, Computer Networking, Databricks, Django, Docker, FastAPI, Flask, GraphQL, JavaScript, Jest, jQuery, C/C++/ C#, Git, HTML/CSS, Java, Next.js, Node.js, Machine Learning, Maven, MySQL, NumPy, Pandas, PHP, Postgres, Pytorch, React.js, REST APIs, Selenium, SQL, Tensorflow, Python, TypeScript, Web Development, NoSQL