Andre Giske

(619) 855-2551 | andre.giske@yahoo.com | linkedin.com/in/andre-giske-8a8030315 | github.com/dregiske

EDUCATION

University of California, San Diego Sep. 2023 – June 2027

Bachelor of Science in Computer Science & Engineering *La Jolla, CA*

- **GPA: 3.2**
- Association for Computing Machinery (**ACM**) **AI Competitions Team**
  - ∗ Develop ML / AI competitions for programmers
- **Relevant Coursework:** Data Structures, Design & Analysis of Algorithms, Discrete Mathematics, Theory of Computation, Database System Principles, Applications of Computing & Systems

EXPERIENCE

Startup Internship July 2024 – Sep. 2024

Acting Connect *San Diego, CA*

- Developed an app for actors to communicate directly to producers, with secure end-to-end Application Programming Interface (**API**) endpoints for user authentication, online transactions, and direct messaging.
- Created app interface (**UI/UX design**) using **Javascript + React** and **HTML + CSS** for seamless and user friendly experience in both mobile and desktop devices.
- Collaborative **Github** work with team members following an **Agile** workflow to develop features, report progress, and brainstorm user stories.

Cyber-Security Apprenticeship Mar. 2025 – June 2025

Net Serpent LLC *La Jolla, CA*

- Worked on a cyber-security app that utilizes **AI models** to classify between malignant and benign packets.
- Increased app performance by **6%** through **optimizing cryptographic** and **hashing algorithms** from the custom user authentication system.
- Created **ZeroMQ** messaging service to transport preprocessed packets across networks and to the algorithms for classification.

PROJECTS

News Recommendation Website | *Python, FastAPI, SQLAlchemy, Pydantic, scikit* May 2025 – Dec. 2025

- My "For You" recommendation website for personalized news feed, utilizing the **scikit-learn KNN** machine learning model that suggests personal content of **70% - 80%** relevancy.
- **SQLAlchemy (ORM) databases** used to track user interactions (dislikes, likes, views), articles and keywords (extracted with **TF-IDF**), and sensitive user information.
- **RESTful API** setup with **FastAPI + CORS** backend routes paired with **JWT** and **Oauth2** for access token authentication, providing a secure sign-up / login system.
- Uniform **HTTPS** request/response schemas made using **Pydantic**, and clean **front-end API layout / interface** using **Javascript + React** and **Axios**.

Blackjack Game Engine | *Java programming, Java Collections* Jan. 2025 – Mar. 2025

- Developed the game full game of Blackjack with all in-game features (split, double, betting system).
- Created with clean **Object Oriented Programming (OOP)** and **Java Collections lib** for optimal game flow.
- Fun interactive game engine for users to play and extend with **UI wiring**.

Similar Product Finder App | *Python, Flask, Bootstrap, scikit, Pandas, Numpy* Aug. 2025 – Present

- My **Flask app** that uses machine learning **scikit** K-nearest-neighbors Model (**KNN**) to find products of similar type based on various features that the user queries with of **80% - 90%** accuracy.
- Scalable design with secure sign-up and login **API's**, and clean **front-end interface** created with **Bootstrap**.
- Developed with **Pandas + Numpy** to read **.csv** datasets on **Kaggle** and for **ML** utilities, and **SQLAlchemy databases** for recording user search histories and other sensitive user information.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Assembly, HTML, CSS, JavaScript, TypeScript, SQL.
Frameworks & Libraries: FastAPI, scikit-learn, PyTorch, SQLAlchemy, PostgreSQL, Pandas, Numpy, Pydantic, JWT-Auth, React, Flask, Bootstrap.
Developer Tools: Github, VS Code, Google Cloud Platform, vim, Linear, Docker, Kaggle, Git, Excel.