AARON J PARK

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EDUCATION

The University of Texas at Austin | Austin, TX　　　　　　　　　　　　　　　　　　　　December 2025
Bachelor of Science in Computer Science - Machine Learning & Artificial Intelligence Track　　　　　GPA: 3.80

- **Relevant Coursework:** Machine Learning, Computer Vision, Software Engineering, Symbolic Programming, Data Structures, Computer Architecture, Operating Systems, Algorithms & Complexity, Linear Algebra, Statistical Methods, Discrete Math
- **Awards:** 2022 VEX-University Robotics Competition Tournament/Skills Champion (1st Place) & Excellence Award

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C++ (Advanced); C, Swift, Assembly, Clojure (Intermediate); R (Basic)
WebApp: HTML, CSS, EJS, Jinja, Bootstrap, React.js, React Native, Node.js, Express.js, RESTful API Design, jQuery, AXIOS
Databases & Cloud: MySQL, PostgreSQL, SQLAlchemy, AWS (Amazon Web Services), GCP (Google Cloud Platform)
DevTools & Platforms: Git, Docker, Valgrind, Postman API, Bootstrap Studio, Linux
Languages: English (fluent), Korean (fluent), Japanese (conversational)
Certifications: Postman API Fundamentals Expert, MIT – Autonomous Cognitive Assistant Program, Harvard University - CS50X: Introduction to Computer Science, CS50AI: Introduction to AI with Python, Udemy - The Complete Web Development Bootcamp

EXPERIENCE

The University of Texas at Austin - CS Department | *Teaching Assistant* | Austin, TX　　　　May 2024 – August 2024

- Delivered machine learning tutorials and facilitated hands-on workshops on NLP and CV to 50+ students, leading to a 25% improvement in project efficiency outcomes and a 30% increase in understanding of key ML concepts, as measured by assessments
- Integrated Python libraries like TensorFlow, Keras, Pandas, and NumPy, reducing student debugging time by 45%

The University of Texas at Austin - Stephen Yi Laboratory | *Research Assistant* | Austin, TX　　December 2023 – August 2024

- Designed and implemented a cutting-edge application focused on automating cell type labeling in spatial images, leveraging multi-omics data integration to achieve superior accuracy
- Collaborated closely with Stephen Yi Laboratory team to ideate, develop, and optimize predictive models for cell type identification utilizing spatial biology data, fostering collaborative innovation and advancement

Texas A&M University - Sketch Recognition Lab | *Research Assistant Intern* | College Station, TX　　May 2022 – May 2023

- Collaborated on a research project to reduce errors of Computer Vision (CV) in poor conditions like interreflection, clutter, occlusion
- Reviewed scholarly papers before being published to The Association for the Advancement of Artificial Intelligence Conference

TECHNICAL PROJECTS

HeartSync Dating App | Python, React Native, TensorFlow, Sckit-learn,

- Designed and developed a dating app leveraging ML algorithms to enhance user matching accuracy based on features like age, sexual orientation, location, and lifestyle preferences
- Implemented clustering recommendation algorithms to analyze user data and predict compatibility, increasing match success rates.
- Evaluated model performance using metrics such as precision, recall, and F1-score, iterating to optimize matching outcomes.

Hatttrick Football Data Platform | Python, React.js, Flask, Bootstrap, HTML, CSS, JavaScript ES6, EJS, SQLAlchemy

- Built a dynamic and user-friendly Web App allowing users to easily search, filter, and analyze football data via an intuitive interface
- Developed Python scripts utilizing multiple APIs to automate the collection of comprehensive football statistics, providing real-time updates on player performances, club details, and league standings for enhanced data accessibility and analysis
- Created a robust database model with SQLAlchemy, efficiently managing relationships and storing detailed information on leagues, clubs, and players for streamlined querying and data integrity
- Designed RESTful APIs for seamless communication between front-end and back-end, using Postman to validate API functionality

Travel Tracker Web App | JavaScript ES6, Node.js, Express.js, EJS, Body-Parser, PostgreSQL

- Developed a full-stack Web App to track and display countries visited by users, enhancing user engagement and data visualization
- Engineered a relational database schema to optimize data storage and retrieval, creating SQL queries to seamlessly manage and associate user profiles with their visited countries
- Created a RESTful API architecture to manage user sessions and travel data, improving application scalability and maintainability

LEADERSHIP / COMMUNITY INVOLVEMENT

Texas A&M University Aggie Robotics Club | *Robotics Software Lead Developer & PR Officer*　　　June 2021 – August 2023

- Designed and developed APIs in C++ and the Graphic User Interface (GUI) of the VEX V5 Brain
- Implemented Pure Pursuit, A* Path Finding, and PID tuning algorithms and programmed Front-End API for autonomous and driver control macros of 4 robots during 2021-2022 VEXU Competition – Tipping Point
- Created promotional videos/posters/flyers, manage social media, and host outreach events to promote the club to potential members and corporate sponsors; recruited 70+ members during the MSC Open House (Club Fair) and secured $12K sponsorship

Texas A&M University Aggie Coding Club | *Back End Software Developer*　　　　　　　　　　　August 2022 – May 2023

- Developed an app that coordinates multiple Texas A&M University Bus routes on a single trip and provides ETA to users using AI
- Participated in various Kaggle competitions utilizing Keras, TensorFlow, OpenCV, PyTorch, NumPy, Pandas, Scikit-learn libraries
- Orchestrated project management, team administration, and scheduling using Gantt chart for enhanced productivity and organization