

Michael Chen

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EDUCATION

University of California, Riverside

Riverside, CA

B.S. in Computer Science, Minor in Business

GPA: 3.74/4.0 — Graduation: Jun 2026

- **Relevant Coursework:** Data Structures & Algorithms, Software Construction, Design of Operating Systems, Assembly and Machine Organization, Logic Design, Formal Automata, Cybersecurity, Discrete Math, Linear Algebra, Differential Equations, Technical Communications

PROFESSIONAL EXPERIENCE

MOBIVOLT LLC

Livermore, CA

Software Engineer – Intern → Part-Time (Windows Presentation Foundation/C#/Arduino/Python)

Jun 2023 – Present

- Developed desktop applications using WPF for real-time control and visualization of **16** parameters on a fuel processor and a Gas Chromatograph handling **50+** commands, boosting operational efficiency by **65%**
- Developed firmware to monitor voltage, temperature, pressure, and other parameters in various hardware devices, enhancing data visualization and system monitoring via GUI data exchange, incorporating safety features such as checksums to ensure reliable communication and data integrity
- Engineered advanced data processing algorithms for real-time visualization, including dynamic bucket sizing, enhanced extrema preservation, and adaptive filtering, improving measurement accuracy by **30%**

AI at UCR (AIR)

Riverside, CA

Founder/President

Oct 2023 – Present

- Established the first official AI club at UCR, growing membership to **50+** and increasing engagement through events, leading to a **45%** surge in attendance
- Collaborated with AI industry experts to deliver guest lectures and create informative workshops, enhancing the academic and professional network
- Developed and presented a **9**-topic AI curriculum, refined with AI professors, tailored for students of all levels.

SKILLS

Programming Languages: Python, C/C++/C#, Java, Node.js, GraphQL, SQL, JavaScript, HTML, CSS

Frameworks: React/Next.js, Spring, TensorFlow, PyTorch, Flask, Windows Presentation Foundation

DB & Tools: MongoDB, Postgres, Jupyter Notebook, Microsoft Visual Studio, Eclipse, Arduino, SPSS Statistics

Machine Learning: Supervised & Unsupervised Learning, Advanced Learning Algorithms, Reinforcement Learning

CERTIFICATIONS

Coursera (2022-2023): [Unsupervised Learning](#), [Recommenders](#), [Reinforcement Learning](#); [Supervised Machine Learning](#); [Advanced Learning Algorithms](#)

IBM (2017): Certified Specialist - SPSS Statistics Level 1 v2

PROJECTS

PHiLiP: Personalized Human in Loop Image Production | *Python/PyTorch/Generative AI*

Feb 2024 – Jun 2024

- Won the University Category of the AMD Pervasive AI Developer Contest, with AMD sponsoring travel to present a live demo at the **AMD Advancing AI Event 2024** in San Francisco.
- Collaborated with AMD to set up and perform the demo, showcasing the AMD MI210's advanced capabilities in accelerating image generation and real-time processing.
- Developed a full-stack solution utilizing PixArt models for text-to-image generation, Freestyle for 71 style variations, and ControlNet for realism, with Stable Diffusion upscaler to enhance quality and speed.
- Leveraged AMD cloud resources and MI210 GPUs to implement an iterative feedback system, optimizing real-time processing and high-quality output.

News Genie: AI-Powered News Aggregator | *React/Next.js/Python/Flask/Firebase/Gemini AI*

2024

- Developed a full-stack news aggregator using React, Next.js, Flask, and Firebase, integrating Gemini AI for personalized news recommendations and summaries
- Implemented features including user authentication, preference management, and real-time news analysis, utilizing Tailwind CSS for styling, Framer Motion for animations, and Axios for API requests

CAMPUS INVOLVEMENT

AI at UCR — Association for Computing Machinery — Cybersecurity — Gamespwn — American Marketing Association