

# Andrew Krikorian, Software Engineer

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## EMPLOYMENT HISTORY

Jun 2024 — Present	<b>Undergraduate Researcher, Fokwa Group, UCR</b> <div>Riverside</div> <ul style="list-style-type: none"><li>Developing a custom machine learning model to predict magnetization properties of inorganic solid-state compounds</li><li>Implementing advanced algorithms for materials property estimation and analysis</li><li>Applying AI/ML techniques to accelerate materials discovery and characterization</li><li>Contributing to computational materials science research through model development</li></ul>
Jan 2023 — Jul 2024	<b>Undergraduate Researcher, Gallardo Group, UCR</b> <div>Riverside</div> <ul style="list-style-type: none"><li>Led a research team investigating feed-forward neural networks for algebraic geometry applications</li><li>Developed algorithms for analyzing wall-chamber decomposition in plane curve parameterization</li><li>Collaborated with mathematics and computer science departments on novel ML applications</li></ul>
Jun 2023 — Sep 2023	<b>Software Engineer Intern, Persistent Systems</b> <div>Santa Clara</div> <ul style="list-style-type: none"><li>Architected and implemented a SQL query generation GUI using Python, streamlining database operations</li><li>Engineered an automated synthetic test data generator, significantly reducing manual testing efforts</li><li>Implemented robust data validation workflows using Great Expectations, ensuring data quality and reliability</li><li>Developed an intuitive Streamlit-based GUI for executive analytics, enhancing data accessibility</li></ul>
Jun 2022 — Sep 2022	<b>Software Engineer Intern, AI/ML, Silicon Valley Bank</b> <div>Palo Alto</div> <ul style="list-style-type: none"><li>Developed a machine learning model for mortgage business forecasting using TensorFlow</li><li>Engineered a Django API integration with Tableau for automated weekly reporting</li><li>Reduced analysis workflow from 16-20 hours to near-zero through automation</li><li>Implemented data pipeline integrations with MongoDB and internal servers</li></ul>

## EDUCATION

Aug 2020 — Dec 2024	<b>B.S. in Data Science, AI/ML, University of California, Riverside</b> <div>Riverside</div> <ul style="list-style-type: none"><li>Graduated with Latin Honors, Cum Laude</li></ul>
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## NOTABLE PROJECTS

<b>Skinvue   1st Place Hackathon Winner</b> <ul style="list-style-type: none"><li>Engineered an AI-powered skin cancer detection system using TensorFlow and CNNs</li><li>Trained models on Harvard's HAM10000 dataset achieving 98% accuracy</li><li>Built responsive React/Tailwind frontend for image submission and analysis tracking</li></ul>
<b>Picturelock   Social Media for Film Enthusiasts</b> <ul style="list-style-type: none"><li>Architected full-stack mobile application using React Native, NativeWind, and Supabase</li><li>Implemented real-time notification system and recommendation engine using AWS EC2</li><li>Achieved 100% uptime while serving 100+ beta users</li></ul>
<b>Pathfinder   3D Printed Autonomous Vehicle</b> <ul style="list-style-type: none"><li>Developed embedded C++ control systems for autonomous navigation using Raspberry Pi</li><li>Implemented real-time object detection using OpenCV with 1fps processing</li><li>Designed custom PyTorch-based decision-making architecture for low-latency control</li></ul>

## SKILLS

C++	React
Python	SQL
Java	Git
JavaScript	AWS