

Karthik Sabhanayakam

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Experience

Research Intern — George Mason ASSIP June 2024 - Present

- Analyzing $PM_{2.5}$ from satellite data using Python-based deep learning frameworks
- Presented research poster to faculty at ASSIP Symposium
- Paper pending publication in peer-reviewed journal

Research Intern — San Jose State University August 2023 - Present

- Investigating environmental discrimination in Superfunds by employing machine learning algorithms
- Selected to present paper's findings at NCUR and SCURR conferences

Independent Researcher December 2023 - April 2024

- Conducted novel research on wavelet analysis for radio galaxy classification
- Achieved a 10.52% accuracy increase over state-of-the-art convolutional neural networks
- Presented work at Science Fair and published paper

Student Researcher — ASDRP August 2021 - February 2023

- Developed deep learning algorithms for breast cancer prediction
- Published "Predicting the Instance of Breast Cancer Within Patients Using a Convolutional Neural Network"

Software Engineering Intern — Daewoong Academy January 2024 - Present

- Developing API endpoints for Daewoong Academy's online testing center
- Assisting the college intern team with Jira project management

High School Intern — Audax Labs October 2023 - January 2024

- Implemented machine learning models for water fault detection
- Submitted Docker image and comprehensive report to company supervisors

Education

BASIS Independent Silicon Valley — San Jose, CA Class of 2025
4.0 GPA; 1580 SAT