

Noah Kim

Mathematics Major

noah.kim@email.com | (555) 567-8901 | github.com/noahkim | linkedin.com/in/noahkim

Education

B.S. Mathematics, Tech Institute (Expected May 2025)

GPA: 3.90, Honors

Relevant Coursework, Real Analysis, Linear Algebra, Probability, Numerical Methods, Optimization ()

Experience

Data Analyst Intern — Insight Analytics | Jun 2024 - Aug 2024

- Built regression and Monte Carlo models forecasting KPIs; validated results against historical benchmarks.
- Automated Excel reporting pipelines with Python, saving ~5 hours/week and improving client turnaround time.
- Prepared visual summaries and presented model findings to the account team.

Math Tutor — Tech Institute Learning Center | Sep 2022 - Present

- Tutored calculus, linear algebra, and probability to groups and individuals; improved tutees' average exam scores by ~15%.
- Developed concise solution guides distributed to 100+ students.

Research Assistant — Applied Math Lab | Jan 2023 - May 2023

- Implemented numerical solvers for PDEs and benchmarked performance; contributed to documentation and plotting scripts.

Undergraduate Teaching Assistant — Intro to Probability | Sep 2021 - Dec 2021

- Led weekly recitations and supported exam prep sessions for 40+ students; prepared sample problems and solution keys.

Projects

Monte Carlo Risk Simulator — Python, NumPy, pandas

- Simulated portfolio returns and computed VaR/expected shortfall for scenario analysis; visualized distributions for reports.

Optimization Library — C++, Python

- Implemented gradient descent and simplex routines; benchmarked performance on standard test problems.

Numerical Methods Project — MATLAB, Python

- Solved boundary value problems and compared convergence rates of finite difference schemes.

Activities & Awards

Math Department Honors • Programming Contest Team — Member • Volunteer — STEM Outreach

Skills

Python, R, MATLAB, LaTeX, Probability, Statistics, Numerical Methods, Optimization, Data Visualization