Kevin Lei

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Education

Texas A&M University August 2022 – May 2026
Bachelor of Science in Computer Science *College Station, TX*

- **Overall GPA: 4.0/4.0**
- Craig and Galen Brown Engineering Honors Program
- Relevant Coursework: Machine Learning, Analysis of Algorithms, Computer Organization

Technical Skills

Languages: Python, C/C++, Java, JavaScript, HTML, CSS
Developer Tools: Git, Linux, Docker
Technologies/Frameworks: React, Node.js, Next.js, PostgreSQL

Experience

Undergraduate Research Assistant August 2023 – Present
Dr. Peter J. Brown *College Station, TX*

- Visualizing and organizing observational data gathered from the Neil Gehrels Swift Observatory
- Developing and maintaining a full stack web app displaying SNe light curves
- Assisting in applying statistical analysis of supernova light curve data to estimate population parameters

Enterprise Resource Planning Intern June 2023 – August 2023
Princetel Inc. *Hamilton, NJ*

- Managed the receiving and usage of parts for the production floor
- Developed a Python-based automation system aimed at streamlining inventory data management, enhancing efficiency and accuracy for inventory updates and tracking
- Utilized Epicor software for various administrative tasks, including data entry, order processing, and scheduling

Digital Humanities Intern March 2023 – July 2023
The Writing Institute of Princeton *Princeton, NJ*

- Leveraged computer science to analyze qualitative data predominantly consisting of literary texts to take a more structured approach in philosophical analysis
- Applied process ontology to connect qualitative data to highlight relationships between various texts, allowing more holistic conclusions
- Conducted comprehensive reviews of database technologies and paradigms to optimize input compatibility and future scalability

Projects

Aggienova Plots | *TypeScript, React, Next.js, PostgreSQL* August 2023 – Present

- Developed a full-stack web application for easily plotting supernova light curves
- Designed a relational database schema to store and organize photometry data
- Deployed the application using Vercel
- Showcased to the Texas A&M Astronomy Department

RISC Processor | *Logisim* March 2024

- Designed a fully functional 64-bit x86-like RISC processor as a Logisim circuit
- Supports basic arithmetic, logic, and control flow operations
- Follows a subset of the x86 instruction set architecture

Volunteering

Chemistry Instructor September 2019 – June 2022
Huaxia Chinese School *Montgomery, NJ*

- Developed lesson plans and supplemental resources to aid in understanding of material
- Organized team meetings and agendas to plan weekly lessons with other instructors
- Taught students fundamental knowledge regarding college level introductory chemistry courses