

# Kevin Lei

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## EDUCATION

### Texas A&M University

*Bachelor of Science in Computer Science*

August 2022 – May 2026

*College Station, TX*

- **Overall GPA: 4.0/4.0**
- Craig and Galen Brown Engineering Honors Program
- Relevant Coursework: Machine Learning, Data Structures and 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

*Dr. Peter J. Brown*

August 2023 – Present

*College Station, TX*

- Processing and visualizing supernova light curve data gathered from the Neil Gehrels Swift Observatory
- Developing, maintaining, and deploying a full stack web application displaying light curves of supernovae
- Assisting in applying statistical analysis of supernova light curve data to estimate population parameters

### Enterprise Resource Planning Intern

*Princetel Inc.*

June 2023 – August 2023

*Hamilton, NJ*

- Organized and improved inventory management through classifying, cataloging, and tracking goods, increasing efficiency in warehousing
- 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

*The Writing Institute of Princeton*

March 2023 – July 2023

*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 plotting supernova light curves
- Designed a relational database schema to store and organize photometry data
- Deployed the application using Vercel

### RISC Processor | *Logisim*

March 2024

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

## VOLUNTEERING

### Chemistry Instructor

*Huaxia Chinese School*

September 2019 – June 2022

*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