

# Eric Qian

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## EDUCATION

**Purdue University - GPA 3.52**

*B.S. in Computer Science, minor in Math*

Expected Graduation: Dec 2025

*West Lafayette, IN*

## WORK EXPERIENCE

**Data Engineering Intern**

*Pacific Gas and Electric*

May 2025 – Aug. 2025

*Oakland, CA*

- Created production-grade data pipelines with Python to track gas pipeline leakage, ensuring accurate and timely compliance reporting to the California Public Utilities Commission (CPUC).
- Leveraged Apache PySpark to perform large-scale data processing on millions of gas leakage records.
- Collaborated in an Agile development environment, delivering production-ready code through Git-based CI/CD workflows and peer code reviews.

**Backend Software Engineering Intern**

*Securitas Technology*

Apr. 2024 – May 2025

*Remote*

- Created multithreaded Python scripts to obtain ZIP+4 codes and website fields for 1.25 million Salesforce accounts, expected to save the company \$150,000 - \$200,000 compared to outsourcing quotes.
- Developed several ETL data pipelines to integrate Emplifi API data into Google Cloud using Cloud Run functions and Cloud Scheduler.
- Used SQL to identify discrepancies from 800,000+ records between legacy/production datasets.
- Created technical documentation including API references and troubleshooting guides to ensure proper maintenance of data pipelines.

## PROJECTS

**TDINTigami** | *Python, HTML/CSS/JS, Visual Studio Code*

Nov. 2023

- Developed and maintaining [tdintigami.com](https://tdintigami.com), an interactive platform featuring every unique quarterback touchdown-interception ratio in a season in the history of the NFL.
- Created filter features with JavaScript that allows users to view quarterback data for specific teams, years, and Pro Bowl/All Pro status.
- Scraped 2000+ webpages with BeautifulSoup to gather quarterback data for visualization.
- Website peaked at 500+ unique daily visitors.

**BeBoiler** | *NestJS, React Native, MongoDB*

Sep. 2024 - Dec. 2024

- BeBoiler is a full stack social media app for Purdue students to explore and share local monuments.
- Created RESTful API endpoints using NestJS, ensuring secure data retrieval and manipulation from a MongoDB database.
- Leveraged React Native to create a modern and responsive UI for iOS and Android devices.

**Custom C Shell** | *C/C++, Vim*

Mar. 2025 - Apr. 2025

- Developed a fully functional shell interpreter from the ground up that combines features from other shells such as bash and csh.
- Implemented a tokenizer and parser with Lex and Yacc for command syntax.
- Key features include handling piping, I/O redirection, wildcard expansion, and subshells.

## TECHNICAL SKILLS

**Languages:** Python, TypeScript/JavaScript, Java, C/C++, SQL

**Developer Tools:** Node.js, Git, GCP, Apache Spark, Palantir Foundry, Microsoft Excel, JUnit, Jira