Jielin (Terry) Li

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EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
B.S. in Information Systems, Minor in Computer Science (GPA: 3.89 / 4.0)   May 2025

Coursework: Principles of Software Engineering (Java & TypeScript); Databases Design and Development (SQL); Data Structure and Algorithms (C); Functional Programming (SML); Web Development (Expected); Computer Systems (Expected); Parallel and Sequential Data Structure and Algorithms (Expected); Application Development (Expected)

WORKING EXPERIENCE

PLUS - Personalized Learning Squared   **Remote**
Software Engineer Intern   May 2022 – Sep 2022

- Implemented *10+* responsive static web page designs using *HTML5*, *CSS3*, *JavaScript*, *jQuery*, and *Bootstrap* framework to enable company rebranding and attracted *500+* new potential users
- Created pipeline to validate user inputted contact information using *JavaScript* and store it in a Google Sheet
- Automated *MySQL* database backup and other internal tasks periodically using *bash scripts* and *Cron Job*
- Compiled release notes for each iteration to be published onto the webpage to announce recent updates

CMU School of Computer Science   **Pittsburgh, PA**
Research Assistant   Sep 2022 – Dec 2022

- Created and maintained graph semantic web database of USA administrative divisions data on CMU server; clean up legacy code and documents and present weekly progress reports
- Build interactive knowledge graph website to display USA administrative divisions data with smooth navigation using *HTML5*, *CSS3*, *JavaScript*, and *Cytoscape.js* & *Cola.js* libraries to help people understand graph database

PROJECTS

Santorini – Full Stack Web App

- Designed and implemented extensible game Santorini support God cards and AI-player using *Java* and *TypeScript*
- Set up web server for backend using *NanoHTTPD* to communicate with frond end; rendered UI using *React.js*
- Designed multiple layers of abstraction with Domain Model, Object Model, System Sequence Diagram with *UML*
- Wrote *95% coverage JUnit tests* for core components, automated testing process using *Git Actions* and *CheckStyle*

Text Classification Visualization Framework

- Designed and implemented black-box data visualization framework classifying texts from articles using *Java*
- Implemented data load plugins using *REST API* to load data from sources like New York Times
- Utilized *Google Cloud NLP API* to perform text classification and visualized entities analysis using *Chart.js*

YouTube Database

- Re-engineered the early stages of YouTube database with a team of three exploring database development lifecycle
- Defined 10+ user stories and derived relational model, functional dependencies for simulated database
- Implemented normalized simulated *PostgreSQL* relational database; achieved user stories using *SQL* and *Python*

Flash Chat – iOS App

- Designed messaging app using *Swift* with low coupling design, good information hiding, and component reuse
- Set up user authentication and cloud database using *Firebase* to enable users to register and login

Skills

Programming Languages: Java, JavaScript, TypeScript, Python, HTML5, CSS3, Bash, C, SQL, Swift, SML
Technologies & **Tools**: Git, Bootstrap, Postgres, Agile, REST API, React.js, Cytoscape.js, Figma