Terry Li

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
B.S. in Information Systems, Minor in Computer Science (GPA: 3.79 / 4.0)   *Aug. 2021 – May 2025*

EXPERIENCE

Software Engineer Intern   Sep. 2022 – Jan. 2023
AI Caring Project Under Prof. David S. Touretzky   *Pittsburgh, PA*
- Created and maintained RDF Triplestore database of USA administrative divisions data on CMU server using Terse RDF Triple Language
- Build interactive knowledge graph website to display USA administrative divisions data queried by SPARQL with smooth navigation using JavaScript, jQuery, Cytoscape.js with Cola.js extension
- Clean up legacy code and documents and present weekly progress reports

Software Engineer Intern   May 2022 – Aug. 2022
PLUS - Personalized Learning Squared   *Remote*
- 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 Google Sheet
- Automated MySQL database backup and 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

PROJECTS

Text Classification Visualization Framework | *REST API, Google Cloud, Java, TypeScript, Chart.js*
- Developed extensible black-box data visualization framework classifying texts from articles
- Support data plugins extract texts; display plugins visualize entity analysis using Java and TypeScript
- Implemented 3 data load plugins using REST API load data from NY Times, Guardian, and Wikipedia
- Implemented 3 data display plugins using Chart.js and text classification using Google Cloud NLP API

Santorini Game | *Java, Maven, TypeScript, Npm, React.js, NanoHTTPD, JUnit, Git*
- Developed full-stack web app game extensible for God cards and AI players with Java and TypeScript
- Set up web server for backend using NanoHTTPD to communicate with frond end rendered by React.js
- Designed multiple layers of abstraction using object-oriented design and design patterns with Domain Model, Object Model, System Sequence Diagram with UML
- Wrote 95% coverage JUnit tests for core components, automated test using Git Actions and CheckStyle

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

TECHNICAL SKILLS

Languages: Java, JavaScript, Linux Shell, Python, SQL, TypeScript, HTML5/CSS3, SML, C
Frameworks: Bootstrap, JQuery, JUnit, React.js,
Developer Tools: Git, Postgres, Google Cloud Service, Visual Studio
Libraries: Cytoscape.js, Cola.js, Chart.js