

Tyler Lowe

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

May 2023

QPA: 4.0/4.0

Bachelor of Science in Information Systems

Minor: Business Administration

Current Coursework: Principles of Software Construction, Principles of Functional Programming, Application Design and Development

Past Coursework: Principles of Imperative Computation, Fundamentals of Programming and Computer Science, Database Design and Development

Honors/Organizations: Dean's List with High Honors

SKILLS

- Python, C, Ruby, Java
- Ruby on Rails Framework
- Web-Scrapping (Selenium, BS4)
- HTML, CSS, JavaScript, Bootstrap
- Databases, SQL, Postgres, basic MongoDB
- Microsoft Suite, Google Sheets

PROJECTS

S.A.M — Student-Aid Machine

- Developed a voice-enabled program using Python that featured an internship recommender and a “to-do” tracker using scrapped Canvas data and user-defined tasks
- Built internship recommendation system using user preferences, ideals, skills, and web-scrapping
- Designed GUI to bring together the core components with filters, actions, and keyboard shortcuts
- Implemented additional features including multi-text clipboard, weather updates, Google search, and mapping

Database Project

- Researched company (Grubhub) and generated 3 users and 10 user stories for interacting with the database
- Sketched conceptual model in UML to map the necessary entities and attributes, relationships between entities, and multiplicities
- Translated conceptual model to logical model, condensing when possible and finding both primary and foreign keys
- Normalized set of relations to BCNF
- Created physical model using Vertabelo and CRUD SQL principles
- Implemented additional Postgres triggers and functions into the database
- Realized user stories via Python and Psycpg2 by creating queries that utilized CRUD principles, triggers, and functions

Web Development Project

- Created and archived 10+ user stories for website
- Developed a design guide which included colors, font, information architecture, and site map
- Developed low and high-fidelity wireframes
- Constructed fictional website for a real company using vanilla HTML, CSS, JS, and jQuery
- Executed user testing and revisions based on feedback

WORK AND LEADERSHIP EXPERIENCE

Carnegie Mellon University — 15-110 Teaching Assistant, Pittsburgh, PA

August 2020 – Present

- Leading recitation with around 30 students
- Hosting office hours and answering questions on Q&A platforms
- Grading class assignments and tests
- Supporting main professors and class mission

Orinda Union School District — IT Department Intern, Orinda, CA

June 2020 – August 2020

- Enrolled and allocated all district devices
- Worked with device management software
- Handled IT support

CVS Health — Operations Supervisor, Berkeley, CA and Pittsburgh, PA

June 2020 – January 2021

- Previous Roles: Shift Supervisor (March 2019-June 2020), Store Colleague (Nov 2018-March 2019)
- Supervised employees and delegated tasks
- Managed inventory logistics and damages
- Handled store financials and money