

Peter Zheng

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Education

Binghamton University, State University of New York

May 2015

Bachelor of Science in Computer Science

course highlights: Data Structures & Algorithms, Database Systems, Operating Systems

App Academy

September 2015

- Intensive web development training program
- Emphasizes pair programming. Acceptance rate < 5%

Skills

Languages: Java, C/C++, Python, SQL, Assembler, Ruby, Javascript, HTML, CSS

Tools: Eclipse, Visual Studio, IDLE, Unity, Ant, Atom, Git, AWS

Other: AJAX, jQuery, Rspec, React, Ruby on Rails

Projects

Zelp

[Live](#) ● [GitHub](#)

- Single-page React app built on Ruby on Rails, inspired by Yelp
- Used paperclip and AWS S3 to allow users to upload images to the cloud.
- Used google maps API and ruby geocoder to verify map coordinates of restaurants.
- Supports multi-search using the PgSearch gem and kaminari to paginate search results.

Maze Generator/Solver

- Implemented Prim's algorithm for maze generation and calculated the shortest path between two points using Dijkstra's algorithm.
- Generated a 3D maze using the Unity engine.
- Written in C#

School Database System

- Developed using Java and SQL
- Supports all CRUD operations
- Created tables for storing students, courses and enrollments and triggers to update tables automatically.

Generic Checkpointing

- Developed an easily extendable generic library to serialize and deserialize objects in XML.
- Implement the strategy pattern and dynamic proxies using Java Reflection.

Experience

Course Assistant

September-December 2012

Programming Concepts & Applications

Binghamton University, State University of New York

- Conducted weekly labs and held regular office hours.
- Responsible for evaluating assignments and projects for 30 students.

Software Contests

Rensselaer Polytechnic Institute Hackathon

24-hour hackathon

- Created an interactive game using Leapmotion software in a small team.

Programming Competitions

- Indeed Prime Challenge on HackerRank (third place prize)
- IBM Master the Mainframe
- Facebook HackerCup