

NATHAN HALL

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EDUCATION

University of Pittsburgh | Pittsburgh, PA

Bachelor of Science in Computer Science

Expected Graduation: August 2020

Relevant Courses:

Computer Networks, Software Engineering, Operating Systems, Software Design, Professional Writing

PROJECTS

Cheap Eats Android Application

June 2019-August 2019

Team Project | Agile Development

- Full-stack toolchain with XML on the front end, java on the back end, and firebase as the database
- Implemented the following back-end functions: Account creation, account verification, user login, user preferences, password reset, post filtering, and post searching
- Designed the following front-end views: Query, user login, user registration, user settings
- Developed in 4 sprint phases with a kanban board, and GitHub version control
- In charge of leading team meetings twice a week and keeping track of each individual's stories and points

Pitt Social Database Application

October 2019-December 2019

Team Project | Iterative Development

- Developed the main application using java, and PostgreSQL used to implement the database systems
- Implemented the following java functions to work with the database: Create user, create group, login, friend request, group request, confirm friend requests, confirm group requests
- Created the driver file for other team members to test the correctness of functions for the main program
- Used GitHub version control for collaboration between team members

Extending a Microservice Architecture

January 2020-Present

Team Project | Agile Development

- Researched and inherited a docker environment that implemented a microservice architecture
- Optimized the inherited code by implementing a database-per-microservice pattern using PostgreSQL
- Ran tests on the RESTful API by creating PyUnit test cases for each method

WORK EXPERIENCE

Wrestling Coach

November 2017—March 2019

West Allegheny School District

Imperial, PA

- Designed and implemented specific strength, dieting, and technique programs for wrestlers
- Analyzed each wrestler's strengths and weaknesses; and offered a solution to address them
- Ran practices 12 hours a week alongside the head coaches, spent 6-7 hours every weekend at various tournaments throughout the season
- Coached 10 state qualifiers, 6 state placers, 15+ regional qualifiers, 12 regional placers, 25+ sectional qualifiers, and 20 sectional placers

ADDITIONAL ACTIVITIES

Pitt Computer Science Club

September 2017-Present

Volunteer High School Tutor

January 2018-Present

Pitt D1 Wrestling Team

June 2015-December 2016

SKILLS

Languages: C, C++, Java, JavaScript, Python, SQL

Technical: Android, CSS, Docker, Excel, Git, HTML, NodeJS, Word