

Muhammad Aiyaz Noor

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Education

University of Toronto

Toronto, Canada

Bachelor of Science, Computer Science & Mathematics, Double Major

September 2011 – April 2018

Target Areas: General Software Engineering & Web Development

Experience

Teaching Assistant

September 2016 – April 2018

University of Toronto Scarborough Campus

Toronto

- Work with Data Structures (Stacks, Queues, Trees, Graphs, Linked Lists, etc), efficient Algorithms, recursion, etc.
- Teach classes of 30+ students covering Computer Science fundamentals. Mark assignments, exercises, and exams. Conduct code reviews and help students with lecture material, problem sets, & solving coding questions.
- Possess strong verbal, communication, & leadership skills to articulate and convey ideas, and coordinate group work.
- Conduct live coding sessions using languages such as Python & Java, to solve problems algorithmically, and cover concepts such as Object Oriented Programming, UML design, Unit Testing, & Complexity. Demonstrate strong problem solving skills, while following good practices such as keeping code clean, structured, reused, and robust.

Open Source Contribution

2018 – Present

WolfBeacon

GitHub link: <https://github.com/AiyazN25/WBPage>

- Learned the fundamentals of React, such as using JSX, Components & Props, incorporating State, and handling Events, to build an application from scratch with an appropriate Component Hierarchy, while using a CSS Grid layout.
- The application is a proof-of-concept of efficiently keeping track of members involved in a Hackathon event.
- Followed MVC philosophy and ES6 JavaScript, to build features such as tabular view (using different tabs) for different members, search bar filter, and an Invite Modal mock.

Projects

InternHub – A Centralized Co-Op/Internship Web Platform (Django, Python, SQLite, HTML, CSS, JS):

- Divided tasks, following Agile & Software Development Methodologies, across multiple Sprints.
- Some of my main contributions: Implemented initial front end designs using HTML, CSS, and JavaScript. Made app elements such as the navbar more styled and responsive. Used Django Template Inheritance to organize and reuse code and used Git, GitHub, and Pivotal Tracker to organize sprints, tasks, through user stories.

JShell – A file system, clone of Bash (Java):

- Followed Agile & Software Development Methodologies, using Object Oriented design using CRC cards, UML diagrams, Scrum Meetings, and Product and Sprint backlogs to divide tasks among group members.
- One main contribution: Implemented a 'Path' class that made implementing the other classes a lot easier.

TBD Browser Plugin – A mock plugin to help visually impaired users to browse the web:

- Prepared a proposal backed with research on the particular problem, conducted surveys to gather user requirements using high fidelity prototypes, and conducted focus groups to acquire feedback.
- One main contribution: analyzed how to best come up with the plugin features based on user survey results.

Interests/Hobbies & Activities

- **Mentorship** – I love to talk to and mentor those who have an interest in programming/development!
- **Attending Conferences/hackathons/workshops** – eg: CUSEC 2018, to get more connected with the industry.
- **Being Creative** – I enjoy making social games (built a couple!). I also love talking theoretical CS (eg: P v NP).

Technical Skills

- Python • Java • C • C# • C++ • HTML • CSS • JavaScript • Bootstrap • MySQL • jQuery • React
- Django • MongoDB • NodeJS • Express • RESTful API • SVN • Git • Bash & Linux • OOP • UML
- Design Patterns • Security knowledge