Ayaz Hafiz

ayazhafiz.com

ayaz.hafiz@vanderbilt.edu — 469-268-0852

github.com/ayazhafiz

EDUCATION

Vanderbilt University – School of Engineering – May 2021
- BS candidate, Computer Science and Chemistry
- Cornelius Vanderbilt full-tuition scholarship (4 years)

Plano West Senior High School – May 2017
- 4.0/4.0, Rank 21/1400

WORK EXPERIENCE

Full Stack Developer, meetHere — November 2016 – August 2017
- Developed a full stack for a start-up using Crystal, Kemal, Node, and PostgreSQL
- Designed user interfaces and implemented components using React, TypeScript, and Vivus.js
- Placed as the US representative for the global Startup Open entrepreneurship competition

Research Intern, University of Texas at Dallas – June 2014 – December 2016
- Researched the applications of multi-walled carbon nanotubes (CNTs) in practical products
- Created CNT-based speakers and eyeglasses meant to be highly efficient in usage and cheap in cost
- Wrote abstracts and created presentations on completed research projects

LEADERSHIP

Membership and Recruitment Board, VINES — August 2017 – Present
- Responsible for managing and tracking member growth in Vanderbilt's entrepreneurship club
- Created a website and blog for the organization, and tracked attendance using Excel

President of Membership, National Honors Society — August 2016 – June 2017
- Kept track of over 1000 members and their volunteer hours using PostgreSQL and Excel
- Designed an online portal for members to track their meeting attendance and volunteer hours
- Helped organize a fun-run that donated $5000 to local libraries

SELECTED PROJECTS

meetHere.js — July 2017 - Present
- Open-sourced core algorithms used by the meetHere web applications in JavaScript/TypeScript
- Improved low-level operations with C++ bindings and a variety of heuristic algorithms
- Incorporated deep integration with Google Maps APIs for real-time applications

Cliq with Me — October 2017 – Present
- Created a social media aggregation tool for student to connect with others at university events
- Developed a web application using Flask, Node.js, Passport, PostgreSQL, and Material Design

Crystal Shards — Spring 2016 – July 2017
- Wrote a variety of packages, including a vector and mobile library, in Crystal
- Published repositories as "shards" available to use by the Crystal community
- Contributed to community shards and frameworks like Kemal on GitHub

COIT — Spring 2016
- Created an app to deterministically estimate the optimal parking spot in a large garage
- Developed a regression model in R with 90% accuracy
- Wrote a progressive web app using Vue.js and Materialize

SKILLS

Languages: Java, Javascript/Typescript, Crystal, C++, R, SQL, Python, HTML/CSS/Sass, Bash/Zsh

Technologies: Node.js, Express, Kemal, Shiny, React, Vue.js, PostgreSQL, Docker, Git