

TONGXU (TONY) BAI

OBJECTIVE

Dedicated undergraduate engineering student in computer science with a robust background in mathematics. Currently seeking a summer 2019 internship in software engineering.

EDUCATION

University of Michigan, Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science

May 2021

Coursework: Honors Analysis I (Proof-based Analysis on Manifolds, MATH 395), Programming and Data Structures (EECS 280), Introduction to Combinatorics (MATH 465), Autonomous Electronic Systems (ENGR 100). Planning to take Data Structures & Algorithms (EECS 281) during Winter 2019 semester.

Huron High School, Ann Arbor, MI

2014-2018

High School Diploma

Activities: Symphony Band & Orchestra, Marching Band, Varsity Track & Field, National Honor Society, Academic Games
Graduation Awards: PTSO Award for Excellence in Mathematics for Class of 2018, SEC All-Academic Team for Class of 2018

SKILLS

Programming: C++, Java, HTML/CSS, LaTeX, GitHub

Mathematics: Proof-writing, competition math, Calculus I-IV, Linear Algebra. Challenged myself and took MATH 295/296 (Honors Math sequence) at the University of Michigan during my senior year of high school.

Extracurricular: Piano performance, bassoon, direct sales, research, push-ups, and cold showers

Languages: English (native proficiency), Chinese (native proficiency in speaking and listening), German (basic proficiency)

EXPERIENCE

Sales Representative

Vector Marketing, Ann Arbor, MI

June 2018

- Engaged in direct sales through extensive networking and one-on-one appointments
- Executed sales of up to \$600 worth of goods

Student Researcher

University of Michigan Department of Neurology

September 2015 - November 2017

- Worked with Dr. Michael Wang's lab to discover new proteins of the human cerebrovascular system
- Extracted and analyzed data from the Human Protein Atlas.
- Published a paper in the PLOS One scientific journal

PUBLICATIONS & PROJECTS

Large-scale identification of human cerebrovascular proteins: Inter-tissue and intracerebral vascular protein diversity.

<https://www.ncbi.nlm.nih.gov/pubmed/29190776>

PLOS One Journal, November 30, 2017

Chess Bot. Challenge it if you dare!

https://lichess.org/@/FlamingDragon_9000

Implemented the Stockfish 9 chess bot on the Lichess website and deployed it to a Heroku server to run by itself 24/7.

HONORS & AWARDS

- Two-time National AP Scholar
- National Merit Finalist
- U.S. Presidential Scholar Nominee
- Michigan Math Prize Competition Top 20
- Two-time AIME qualifier
- Third Place Winner of American Protégé International Piano and Strings Competition 2017
 - Performed at Weill Recital Hall of Carnegie Hall in New York, New York on Memorial Day 2017