

BRIAN XIANG

Software Engineer & Cyber Security Enthusiast

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EDUCATION

University of Maryland – College Park

Bachelor of Computer Science

Expected May 2025

- GPA: 3.74 (Previous Semester)
- Relevant Coursework: CMSC131, CMSC132, CMSC216, CMSC250, MATH241H
- Advanced Cybersecurity Experience for Students (ACES) Honors Program

WORK EXPERIENCE

Operations & Engineering Associate

January 2021 – Present

Execute Big

Rockville, MD

- Spearheaded development of Tech Roulette, an online summer tech education program with 1,200+ students built using **Node.js**, **Express**, **Bulma**, **Handlebars**, & **PostgreSQL**
- Adapted quickly to short time constraints (3 week launch) and unexpected userbase growth (200+ users within first week)
- Conducted user stories & utilized team provided feedback to continuously improve existing functionality & launch new features
- Wrote curriculum, ran weekly workshops, and managed speaker sessions in a 6 week online fellowship program with 20+ cohorts

Summer Intern

July 2020 – August 2020

UMD MindLabs

College Park, MD

- Developed a contact tracing application using **React.js** that maps out individuals moving around the UMD campus, informing users of dangerous spots / time frames where there is potential for COVID-19 exposure
- Worked with **ArcGIS** and existing campus map technologies to programmatically create respective bounding layers & regions in **Mapbox** with up to 94% accuracy

Web Development Intern

October 2019 – July 2020

RankIt Digital Marketing

Remote

- Maintained & optimized critical **WordPress** / **Shopify** services, wrote articles and created content for clientele, lead frontend development, and implemented SEO optimizations for various businesses

Assistant Organizer / Volunteer / CodeLabs 2020 Mentor

May 2019 – March 2020

CodeDay – formerly StudentRND

Various

- Organized CodeDay DC, a local hackathon with over 300 attendees, by developing marketing campaigns, searching for sponsors & venues, coordinating day-of logistics, running programming workshops, and mentoring individuals

Summer Intern

June 2019 – July 2019

DreamPort – Maryland Innovation & Security Institute

Columbia, MD

- Programmed robots in Arduino, imaged Windows machines for 30+ employees, trained a facial recognition model with **TensorFlow**, created a **React.js** showcase for mosaic projects

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, SQL, NoSQL, Python, Java, C, C++, .NET, Bash

Frameworks & Tools: TypeScript, React.js, Node.js, Next.js, Express, PostgreSQL, MongoDB, Redis, Docker, Linux, AWS, GCP

HONORS & AWARDS

National Cyber Scholar w/ Honors, National Cyber Scholarship Competition

2021

6th Place, PicoCTF – US Middle / High School (12,000+ teams)

2019

1st Place, Maryland Cyber Challenge (100+ competitors)

2018 & 2019