

Tyler McBride

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EDUCATION

The University of Chicago, Chicago, IL

Graduating June 2026

Bachelor of Science in Computer Science | Bachelor of Art in Business Economics

- Relevant Coursework: Introduction to Database Systems (CMSC 23500), Discrete Mathematics (CMSC 27100)

SKILLS AND CERTIFICATIONS

- Amazon Web Services (AWS) Certified Cloud Practitioner
- Frontend: HTML, CSS, JavaScript, and React JavaScript
- Backend: Spring Boot/Java, Python, C, SQL, and Rust
- Cloud computing: Amazon Web Services, Microsoft Azure
- Flask-Restful, MySQL, and MongoDB
- Data structures, algorithms, and backend infrastructure
- Web application development
- Source control tools and git/GitHub
- Quality Assurance (QA) and User Acceptance Testing (UAT)
- MERN Stack (MongoDB, Express.js, React.js, Node.js)

RELEVANT EXPERIENCE

Site Service Software – *Software Engineer Intern*

August 2024 – Present

- Convert on-premise software to cloud architecture hosted by Microsoft Azure using React JavaScript and Java Spring Boot framework
- Handle Standard Query Language (SQL) operations and database management with Microsoft SQL Server
- Collaborate with the development team to design and implement cloud-based solutions
- Participate in code reviews and contribute to the improvement of Site Service's development processes

Banc of California - *Salesforce Intern*

June 2024 – August 2024

- Performed User Acceptance Testing (UAT) on new cloud-based integrated Salesforce platform using Agile development methodology
- Supported project management team by identifying User Interface (UI) bugs and potential system improvements
- Coordinated with cross-functional teams and ensured efficient and high-quality product delivery through Jira
- Validated data of 8,000 accounts using Excel in data conversion project for \$40 billion merger with Pacific Western Bank
- Wrote test scripts through new Online Digital Banking (D1B) platform for Fidelity National Information Service (FIS) Banking Service

Outlier AI – *AI Software Consultant*

February 2024 – May 2024

- Performed Quality Assurance (QA) testing on generative Artificial Intelligence (AI) responses for the Dolphin Genesis model
- Wrote efficient algorithms using backend programming languages of Java, Python, and C for generative model debugging
- Analyzed generated Standard Query Language (SQL) queries for optimized database performance in Flamingo Deviations SQL Project

The University of Chicago - *Student Research Assistant*

March 2023 – March 2024

- Managed a fleet of 12 Virtual Reality (VR) Oculus Headsets for use in college-level foreign language classes
- Researched and organized information on several VR Mobile Device Management (MDM) software solutions and Immerse.com
- Edited VR Videos using Premiere Pro and uploaded videos using Android file transfer for Oculus Operating System (OS)

Angi - *Category Management Intern*

June 2021 – August 2021

- Conducted interviews with service professionals to assess preferences on exterior painting projects
- Programmed and conducted surveys in Qualtrics to assess homeowner's extent of knowledge on their exterior painting project
- Research informed updates to Angi's exterior painting category (~500k leads/year) and overall improved User Experience (UX)

PROJECTS

Colorado River Basin Database [MERN Stack – 11.2024]

- Cohesive platform to find data on the Colorado River Basin and all its major reservoirs, including atmospheric and water data
- Cloud-hosted MERN-stack application hosted via AWS Amplify for frontend service and AWS Elastic Beanstalk for backend service

ORGANIZATIONS

Algo Group – *Member*

October 2024 – Present

- Develop cutting-edge software engineering projects to bridge academia with latest industry trends
- Engage in technical interview preparation courses to master key data structures and algorithms as well as optimizations techniques

University of Chicago Football [NCAA D3] - *Varsity Athlete*

August 2022 – March 2024

- 2022-2023 Midwest Conference All-Academic
- Participated in team-sponsored Hyde Park Institute counseling which instills the values of leadership and character into young men

Computers for Kids - *Co-founder*

July 2021 – July 2023

- Sought donations of high-powered, recycled corporate computers to donate to students in need
- Led operation of collecting, refurbishing, cleaning, and installing new hardware and operating system onto collected computers
- Donated over 20 computers to students in low-income communities while avoiding significant electronic waste