

Bailey Tincher

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Education:

University of Illinois at Urbana-Champaign

3.75 / 4.0 GPA

- Bachelor of Science in Computer Science Aug. 2017 - May 2021
- Minor in Quantum Physics
- **Relevant Courses:** Artificial Intelligence, Databases, Systems Programming, Algorithms, Web Programming

Skills:

- **Advanced:** Node.js, Python, SQL, AWS Serverless, REST API's, Public Speaking, Initiative
- **Proficient:** C/C++, Java, SciPy libraries, React.js, NoSQL, gRPC, Web Sockets, Least-Privileged Security
- **Achievements:** AWS Certified Cloud Practitioner, Eagle Scout, Dean's List

Projects:

ACM Member-to-Meeting Matching Service

<https://bit.ly/acm-mmm>

2nd Place Hack Illinois 2020

Mar. 2020

- Worked with a team to create an automated service to continuously recommend meetings to 1000s of members
- Parses resumes for keywords against a word similarity matrix to score interests which are then stored in a database
- Runs a concurrent Serverless pipeline that dot products meeting topics against interests to suggest only the most relevant

ACM @ UIUC - Special Interest Group for AI

<https://aida.acm.illinois.edu>

Co-Chair

Aug. 2017 - Present

- Teaching machine learning workshops to over 50 students every week to build up undergraduates on campus with the skills to collaborate on future team projects
- Implemented a Markov Chain Tweet generator in Python that web scraped Tweets and accepted a text sentiment bias

Overheard App

Champaign, IL

AWS Backend Developer

May 2020 - Present

- Establishing a new social media app "Overheard", offering a map-centric view of nearby activity and amusing conversation
- Architecting RESTful and Web Socket micro-services with the Serverless Framework, Lambda, Mongo DB, and Elasti-Cache

Work Experience:

Facebook

Menlo Park, CA

Software Engineering Intern

May 2020 - Aug. 2020

- Built an automated Hive data pipeline for payment chargebacks to detect fraud on the platform
- Designed reusable React components for internal diagnostics and optimized them with feedback from the engineers that were reliant upon them

Citadel

Chicago, IL

Software Engineering Intern

Jan. 2020 - Apr. 2020

- Created a machine learning model data refresh and quality assurance framework for our production trading systems
- Rewrote an internal gRPC API in Python that's relied upon by 120+ researchers and improved its performance by 6x
- Identified my team's weakpoint in React development and took ownership of our internal user interface

State Farm Research and Development Center

Champaign, IL

Software Engineering Intern

May 2019 - Aug. 2019

- Executive's Choice Winner of the 2019 State Farm Hack Day across 1000+ developers company wide, leading a small team as the full stack developer on a computer vision project to improve customer data entry at the scene of an accident
- Integrated a full stack voice app in under 12 weeks that simplified the filing process of 40k+ claims/day, pitched the concept to a corporate executive, and sought out risk management and security teams to bring it near production