

Akarsh Vankayalapati

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Education

University of Illinois at Urbana-Champaign

Master of Computer Science

May 2022

Bachelor of Science in Computer Science

Aug 2021

Minor in Business

GPA: 3.94/4.0

Relevant Coursework: Artificial Intelligence, Database Systems, Data Visualization, UI Design, Computational Photography, Applied Machine Learning, Text Information Systems, Social Signals and Social Media

Skills

Programming Languages: Python, C/C++, Bash, JavaScript (D3, React), Java, SQL (MySQL, SQLite), NoSQL (MongoDB, Neo4j), Haskell, Verilog, C#, ASP.NET

Enterprise Software: GitHub, SAP, Jira, Microsoft Azure, Tableau, Cognos

Work Experience

Capital One

McLean, VA

Software Engineer Intern

Jun 2021 - Present

Panasonic

Rolling Meadows, IL

Software Development Intern

Jun 2020 - Aug 2020

- Automated data ingestion of 30,000-50,000 daily machine log records from pick-and-place manufacturing process through Python and Bash scripts
- Constructed Python pipelines to clean and feed data into XGBoost and Regression ML error prediction models
- Implemented Agile using Jira and installed shared workspaces with Microsoft Azure Virtual Machines and File Shares

Caterpillar Inc.

East Peoria, IL

IT Intern - SAP Basis

May 2019 - Aug 2019

- Analyzed, upgraded, and retired 300 web dispatchers using Bash in order to maintain their lifecycles
 - Developed the Landscape Management (LaMa) tool for automating SAP operations to increase basis team efficiency
 - Proposed enterprise transformations to standard cost revision process for cross-functional intern case competition
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Selected Projects

FoodKeep

Sept 2020 - Dec 2020

- Cooperated with a team of 6 to develop an Android application that tracked food in the user's pantry and notified them when items were close to expiring
- Engineered the backend through Java and the frontend with XML files following Android design principles

Top 1000 Grossing Movies Narrative Visualization

Jul 2020 - Aug 2020

- Published an interactive slideshow narrative visualization through GitHub Pages to show which major movie studios have been the most financially successful by analyzing the top 1000 highest-grossing movies of all time
- Built with JavaScript and D3.js to implement user-interactive bar, donut, and circle packing charts

ShArea

Feb 2020 - May 2020

- Collaborated with a team of 4 to develop a web application through Python Flask framework that allowed users to request to share the cost of food delivery and rideshare services based on nearby proximity
 - Consolidated data through SQL (SQLite3), NoSQL (MongoDB) hybrid database architecture
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Leadership

Engineering Council (EC) - Engineering Employment EXPO

Champaign, IL

Co-Director

Nov 2020 - Present

- Planned and coordinated the Engineering Career Fair, attended by over 7,000 students and 200 companies
- Engaged with the Engineering Council Executive Team to strengthen student affairs in the College of Engineering

Illinois Business Consulting (IBC)

Champaign, IL

Senior Consultant

Feb 2019 - Dec 2020

- Oversaw team meetings, conducted industry research, and produced minimum viable products for three clients
- Organized office hours and training sessions in professional development for consultants