

Samyak Jain

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EDUCATION

University of Illinois at Urbana Champaign

Expected Graduation: May 2024

BS Computer Science, Math; Minor: Psychology, GPA: 3.73

Urbana, IL

- **Relevant Coursework:** Software Design Studio, Data Structures, Algorithms and Models of Computation, Computer Systems and Programming, Programming Languages and Compilers, Artificial Intelligence, Computational Advertising Infrastructure, Differential Equations, Elementary Real Analysis, Linear Algebra

WORK EXPERIENCE

The Trade Desk

May 2023 – August 2023

Software and Data Engineer Intern

San Francisco, CA

- Implemented **ETL pipeline**, in a client-facing tool that predicts KPI's for ad campaigns, **training machine learning models** to predict ad frequency with **Scala, Spark, Airflow, Zeppelin, Amazon EMR, & Aerospike**
- Deployed a feature on a **RESTful API-based** service that reduced calculation load by 300% and made 7 KPI's more accurate by 37% leveraging **Java, Prometheus, Grafana, Kubernetes, & PostgreSQL**

The Trade Desk

May 2022 – August 2022

Software and Data Engineer Intern

San Francisco, CA

- Launched a feature in a **RESTful API-based** ad campaign forecasting tool that reduced inconsistencies by 55% using **Java, Kubernetes, Gitlab, Docker**, and visualized results using **Prometheus & Grafana**
- Developed an **ETL pipeline** that extracted data from **AWS S3 & Azure**, transformed data using **Databricks** with **Apache Spark Runtime in Scala** that increased accuracy of predicted reach in campaigns by 32%

University of Illinois, CS340: Computer Systems

January 2023 – Present

Course Assistant

Champaign, IL

- Built infrastructure on an open-source grading platform to automate grading **flask microservices** implemented by students on midterms using **C, bash, and Python** reducing grade turnaround by 94%

Capital One

January 2022 – April 2022

Full Stack Software Engineer Intern

Champaign, IL

- Rejuvenated a **full stack open-source** Chrome extension that provides definitions to user inputted terms by implementing a caching system that reduced response time by 25% using **TypeScript & Angular**

Juni Learning

June 2021 – January 2022

Computer Science Instructor

- Executed Computer Science lesson plans in **C, C++, Java, Python, & Scala** for students ages 8-18

EDUCATIONAL EXPERIENCE

Disruption Lab

January 2023 – Present

Software Engineer

Champaign, IL

- Developed a web crawler with **Selenium & Bing AI** to extract yearly carbon emissions of 130,000 companies

Reflections Projections

January 2023 – Present

Core Services Software Engineer

Champaign, IL

- Developed an attendee tracking system with multiple endpoints using **TypeScript, yarn, nest, and MongoDB**

SKILLS & FRAMEWORKS

Proficient Languages: C, C++, Java, Python, SQL, Scala, Swift

- Frameworks: TypeScript, JavaScript, Angular, React, Nest, Next, HTML, CSS
- Projects: Personal Weatherman (Python, Flask, Google API, Twilio API, weather.gov API, Microservices), Budget Tracking App (Swift, Flask, Pandas, Google API, Microservices), Airflow Clone (C++, Cinder)