

Nick Monroe

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Job Experience

AT&T, St. Louis, Mo (Hybrid)

Senior Big Data Software Engineer

August 2022 – Present

Technology Development Program Software Engineer

July 2021 – August 2022

Technology Development Program Intern

June 2020 – August 2020

- Led Django software stack implementation, developing web pages across 15 full-stack systems.
- Maintained databases: Snowflake, MySQL, MSSQL, SQL Server.
- Architected cloud solutions (Docker, Data Lake, Databricks, DevOps, Kubernetes, etc.).
- Developed in Python, Java, and JavaScript; designed APIs for internal/external clients.
- Innovated with OCR in Azure Form Recognizer for data extraction from business contracts.
- Functioned as Scrum master and mentor for new team members.
- Responsible for ~1.2m in cost savings per year for three main projects of mine.

Southern Illinois University, Edwardsville, IL

Fall 2019 – Fall 2021

Graduate Assistant

- Teacher Assistant in lab for introductory java coding class. Graded projects, tests, and labs.
- Graduate Assistant for junior/senior level microcontroller class. Graded labs and ran labs.
- Main Professor/Instructor for entry level Computer Science class (CS111).

Express Scripts, Hazelwood, MO

June 2019 – August 2019

Automation Engineering Intern

- Assisted in creating an HMI from scratch that was connected to one of our main projects.
- Programmed a collaborative Universal Robot Arm to run a future project idea.
- Worked with the PLC that was running each of the different machines in the factory.

TAGG Logistics, Hazelwood, MO

Summer 2018 and Winter Break 2018

Software Developer Intern

- Developed twenty plus screens for multiple Django applications.
- Developed Django Model instances to expose legacy database tables to application layer.
- Introduced jQuery Data Tables to application, used to provide dynamic searching to HTML pages.

Education

Southern Illinois University – Edwardsville

August 2017 – May 2021

Masters: Computer Science

Bachelors: Computer Engineering

Skills

Languages: Python, Java, JavaScript, C++

Databases: MySQL, MSSQL, SQL Server, Snowflake, PostgreSQL, NoSQL

Cloud Services: Azure (AKS, Datalake, Databricks, DevOps), AWS

AI: Optical Character Recognition (OCR), Computer Vision (CV), LLM, LangChain

Frameworks: Django, React, Angular, Flask, Node.js

Certifications

Azure: AZ-900, DP-900, AI-900