SAHIL DEV

SOFTWARE ENGINEER

PROFILE

Master's degree in Computer Science with one year of experience, seeking an entry or mid-level role in software engineering, beginning Summer 2022

CONTACT

https://www.sahildev.com
spdev2000@gmail.com
610.425.1589

LANGUAGES

Proficient	Familiar
Python	SQL
Java	C# / XAML
Golang	Ruby
C / C++	Groovy
OCaml	Rust
MATLAB	RStudio
JavaScript	Assembly

Spanish *Sign Language*
Esperanto *German*

SKILLS

Theory	Technologies
Machine Learning	Pandas / NumPy
Algorithms	TensorFlow
Data Analysis	Kubernetes
Game Theory	Docker
Linear Algebra	React
Finance	gRPC
Linguistics	Unity

ACADEMIC EXPERIENCE

Cornell University
Aug. 2021 - May 2022
Ithaca, New York
M.Eng. Computer Science

University of Maryland
Aug. 2018 - May 2021
College Park, Maryland
GPA **3.91/4.0**
B.S. Computer Science (Honors)
B.S. Mathematics
Minor Data Analytics

Coursework

Operating Systems, Databases, & Networks	CS 5410/5114, CMSC424
Machine Learning, Computer Vision, NLP, & RL	CS 6789/5740/5670
Adv. Algorithms, Adv. Data Structures, & Testing	CS 5154, CMSC451/420
Adv. Optimization, Adv. Statistics, & Data Science	AMSC764, BMGT431/430
Abstract Algebra, Linear Algebra, & Real Analysis	MATH410/405/403/401

Research
Twitter Bot Classification (Honors Thesis) ***Sept. 2020 - Aug. 2021***
- Developed a context-aware classification model to identify Twitter bots

Deep Learning in Auction Design ***Feb. 2020 - Sept. 2020***
- Formulated fair auctions as a deep learning problem to improve fairness
- **First Place Award** in May 2020 Research Showcase

APPLIED EXPERIENCE

Sync Computing
Distributed Systems Intern ***Aug. 2021 - Dec. 2021***
- Optimize distributed computing algorithms for Apache Spark

Confluent
Backend Software Engineering Intern ***Jan. 2021 - Aug. 2021***
- Evaluated 3 candidate billing workflow engines for Golang
- Created first production-ready implementation of Temporal workflows
- Migrated legacy deployments to internal framework for 8 cloud apps
- Developed shell scripts and documentation for simple, safe deployments

Capital One
Software Engineering Intern ***Jun. 2020 - Aug. 2020***
- Introduced Jenkins CI/CD pipelines for several Helm applications
- Reduced deployment time from 48-72 hours to under 2 hours
- Simplified Jenkinsfile creation with a customizable generator script

Full Stack Developer Intern ***Feb. 2020 - May 2020***
- Designed a web-based transcript editor from the ground up
- Implemented a robust and secure solution with React, gRPC, and Python

Certified Secure Software Engineer ***Issued Aug. 2020***

Wabtec Railway Electronics
Software Engineering Intern ***Jun. 2019 - Aug. 2019***
- Reduced costs by $10 million in 5 years with a client-side Windows app
- Documented potential points of failure and troubleshooting instructions

Projects

Terraformation Video Game (Unity, C#)	***Summer 2021***
Language Detector (React, TensorFlow)	***Summer 2020***
Small-C Compiler (OCaml, CFG)	***Fall 2019***
Regex Interpreter (OCaml, FSA)	***Fall 2019***
Predictive Text (Java, Markov Chains)	***Spring 2019***
Autonomous Hazard Rover (C, Arduino)	***Summer 2018***