

# SHIVAM BAJPAYI

shiv.page  
+1 (765) 409-7348  
shivam.bajpayi@gmail.com  
shivambajpayi  
awes0menessInc

## EDUCATION

### PURDUE UNIVERSITY

BS in Computer Science  
BS in Applied Mathematics  
Minor in Philosophy  
GPA: 3.74

## SKILLS

### Languages & Frameworks

Advanced (30,000+ lines):  
Python, Java, C++

Intermediate (10,000+ lines):  
Go, Dart, Solidity, C, bash

Beginner (5,000+ lines):  
OCaml, R, JavaScript

#### Frameworks:

Hyperledger Fabric, Ethereum (Scaffold-eth, Foundry), Flutter, Angular 7, Spring Boot, AWS, Docker, Kubernetes, LaTeX, SciPy, NumPy, scikit-learn, pandas, \*nix

### Relevant Coursework

Advanced Algorithms Analysis

Cryptography

Zero Knowledge Proofs (Grad)

Multi-Party Computation (Grad)

Programming Languages (Grad)

Compilers

Operating Systems

Artificial Intelligence

Data Mining and Machine Learning

Systems Programming

Computer Architecture

## INTERESTS

Applied Cryptography, Triathlons, Reading, Chess, Traveling, Spicy Sustenance

Club Involvements: *BlackRock Green Team Network, BlackRock Analyst Working Committee, Boiler Gold Rush (BGR), Phi Delta Theta Fraternity, Purdue Triathlon Club, Purdue Hackers, Purdue Philosophy Club*

## PROFESSIONAL EXPERIENCE

### Blackrock II Blockchain Engineer

Manhattan, New York • September '20

- \* As the second engineer at Digital Assets Lab, I am responsible for BlackRock's integration with Coinbase. This integration allows for BTC and other cryptocurrencies to be traded in Aladdin. I co-designed the architecture for the project, led meetings with staff Coinbase engineers, and leveraged 80+ people across the asset management workflow to engineer the messaging, networking, and infrastructure needs for this project.
- \*\* Worked on BlackRock's flagship calculator library that resolves returns and attribution for all portfolios at BlackRock. I improved our backend caching logic by 40% to allow for 2 petabytes of numerical data to be processed through our servers each week.
- \*\* Enhanced our in-house NLP learning and model-tuning processes to improve additions to our existing training corpus. This allowed us to reduce our existing training corpus by 50% and decreased the number of new additions to our corpus from 17K to ~700.

### Blackrock II Summer Analyst Intern

Manhattan, New York • May '19 – August '19

- \*\* Developed a dashboard to present integration test metrics & cucumber reports for all BlackRock team builds on a custom Jenkins instance
- \*\* Created webhooks and the entire server side implementation using Spring Boot and a custom Cassandra database layer

### Purdue University II Undergraduate Research Assistant

West Lafayette, Indiana • April '18 – May '20

- \*\* Researched towards confidentiality, access control, and integrity of data in Hyperledger-fabric applications. This also involved working on new solutions to ensure the privacy and security of the transactions within the Fabric platform.
- \*\* Developed solutions for a confidential supply chain project in the automobile industry using blockchain platform and their applications.

## PUBLICATIONS

- \* "Reducing Automotive Counterfeiting using Blockchain: Benefits and Challenges", IEEE DAPPCON 2019
- \* Shivam Bajpayi Et Al. "Exploring Confidentiality Issues in Hyperledger Fabric Business Applications" (August 2, 2018). The Summer Undergraduate Research Fellowship (SURF) Symposium. Paper 11.

## AWARDS

### BGR MVP Supervisor

For excellence in supervising & handling logistics to welcome over 7500 students during Boiler Gold Rush.

### Deans List & Semester Honors

For consistently having a Cumulative and Semester GPA over 3.5

### AWS prize @ WildHacks '17

For InstaGuard: A security platform that recognizes & notifies acts of violence and aggression from any security camera/feed over the cloud in real time.

For projects and side hacks, please view my Github.