Ashish D'Souza

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EDUCATION

Georgia Institute of Technology | Atlanta, GA

May 2022

- Bachelor of Science in *Computer Science* Major GPA: 4.0
- Coursework OOP, Data Struct. & Algo., Discrete Math, Obj. & Design, Lin. Alg., Multivar Calc., Comp. Org. & Prog., Intro to AI

EXPERIENCE

Amazon | San Francisco, CA | Software Development Engineer Intern

May '21 - Present

• Incoming Amazon SDE-1 Intern for Summer 2021

Nead Werx, Inc. | Atlanta, GA | Database Developer Intern

May '20 - Aug '20

- Worked remotely with database team on Nead Werx product, MerchLogix, due to COVID-19 outbreak
- Developed functional transcription software database for sample insurance company using PostgreSQL and Perl

Optical Science Center for Applied Research | Dover, DE | Software Engineering Intern

Jun '17 - Jun '19

- Constructed an autonomous aerial greenhouse gas data collection module with Arduino
- Retrieved and analyzed satellite data with TensorFlow ML framework and Selenium

PROJECTS

Fizz | BlackRock Winning Project at HackGT 7 | https://devpost.com/software/hackgt7

Oct '20

- A web-based interactive personal financial consultant, providing the beginning investor with insight rivaling that of financial experts
- Developed the back-end API and managed a database cluster. Also helped design the NLP model and financial analysis assessments.
- Software: Python, Flask, CQL, JavaScript, ReactJS, DataStax Astra, Google Dialogflow, Google Firebase

TimeLock | https://github.com/computer-geek64/timelock

May '20

- TimeLock is a database-oriented implementation of the theoretical concept of time-lock encryption, using RSA 2048-bit encryption
- Built the REST API to perform protected CRUD operations on the database, and the client CLI program to interface with the API
- Software: Java, Spring Boot, PostgreSQL, Maven, Java Persistence API (JPA)

COVID-19 Survival Calculator | https://github.com/computer-geek64/covid19-survival-calculator

Mar '20

- A web application that allows users with the coronavirus to calculate the probability of their survival
- Programmed the back-end REST API and developed the user demographics database system. Also web scraped for and ran data analysis on live COVID-19 datasets, and helped devise the gradient boosting machine learning models.
- Software: Python, Django, Jinja, PostgreSQL, Pandas, XGBoost, LightGBM, Ruby, Nokogiri, JavaScript, HTML/CSS

Firestorm | https://github.com/computer-geek64/firestorm

Dec '18 - Present

- Created and maintained a personal server running a custom version of CentOS 8 for secure file sharing/centralization, remote code development, penetration testing, password/secret management, media streaming, and gaming.
- Built a private projects codebase using Git VCS and backed by a PostgreSQL database system, accessible through the web interface
- Software: Python, Flask, Jinja, PostgreSQL, SQLite, HTML/CSS, JavaScript, Apache, CentOS 8

MileSnap | PDI Winning Project at HackGT 6 | https://devpost.com/software/hackgt6-g7408p

Oct '19

- A cross-platform app that allows users to take a picture of a gas station sign and receive fuel type and price
- Devised an image post-processing spatial algorithm to extract fuel data, and an image pre-processing bilateral blur algorithm
- Implemented the back-end API that leveraged a variety of cloud services, including AWS S3 Bucket, Google Cloud OCR, Azure CV
- Software: Python, Flask, OpenCV, AWS S3 Bucket, Google Cloud OCR, Azure Computer Vision, JavaScript, React Native

AWARDS

- HackGT Hackathon BlackRock Sponsor Award for Fizz Project (2020), PDI Sponsor Award for MileSnap Project (2019)
- SkillsUSA Computer Programming National Gold Medalist (2018), 4x State Gold Medalist (2015-19)
- Regional Multi-state Science Fair First Place (2018), Third Place (2017)

SKILLS

- Programming Languages: Java, Python, C, C++, Perl, Ruby, Bash, SQL/CQL, JavaScript, HTML/CSS, PHP, R
- Frameworks: Django, Flask, Jinja, TensorFlow, Pandas, Spring Boot, Rails, Selenium, SocketIO, OpenCV, Nokogiri, JavaFX & Swing
- Software: Android Studio, Arduino, Git, Maven, LATEX, Google Dialogflow
- Databases: PostgreSQL, MySQL, MongoDB, Apache Cassandra, SQLite, MariaDB
- Operating Systems: Linux (Arch, Fedora, Debian, CentOS, Kali, Qubes OS, Raspbian, Ubuntu), Windows, OS X