

SUNNY CHAVAN

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EDUCATION

Ithaca, NY **Cornell University (Bachelors)** **August 2019 to May 2023**

Major: Computer Science (School of Engineering) (Cumulative GPA: ~ 3.8)

Past Relevant Coursework: Computer Organization, Operations Research (Linear Programming & Optimization), Algorithms and Data Structures (Java), Discrete Mathematics, Linear Algebra, Algorithms, Databases, Functional Programming (OCaml), ML, CV

Upcoming Coursework: OS, Software Engineering, Web Development with Big Data

EMPLOYMENT

Software Engineer Intern **Blackstone Inc.** **June 2022 to August 2022**

- Revolutionized pub/sub messaging companywide, by creating a pub/sub common library that enables standardization, easy implementation and extensibility when leveraging multiple event streaming platforms (Kafka, GraphQL Server, Amazon SNS/SQS) within the same service
- Deployed containerized Micro Services to Kubernetes in AWS using Docker, Jenkins and Ansible
- Leveraging Knowledge AWS, Kafka, Docker, Kubernetes, GraphQL, CI/CD, .Net (C#), ASP.Net, Dependency Injection

Python Software Engineer (Co-op) **Balyasny Asset Management** **January 2022 to May 2022**

- Developed an Event-Driven Back-Tester that quantifies the accuracy and persistence of various proprietary investment models on different types of sector portfolios
- Decreased time spent on model parameter testing by 93% by leveraging python's multiprocessing packages
- Leveraged Knowledge in Python and libraries (Pandas, NumPy, Schedule, Threading), Crontab (for scheduling scripts), AWS

Applications Developer Intern **Regeneron** **June 2021 to August 2021**

- Decreased UI Path bot metric reporting time by over 100% by developing an executive facing automated dashboard that centralized, cleaned, and analyzed data from various sources and displayed visualizations on bot earnings, success rates, and hours saved -- tailored to each department
- Saved ~\$15,000 in company costs by using my dashboard to identify company bots that yielded previous negative profits
- Leveraged Knowledge in Qlik Sense, Python, Apache Hive, SQL, Scrum Sprints, UI Path Studio

Software Developer Intern **Nimbus Controls (Startup)** **June 2020 to August 2020**

- Increased speed of specific database queries by 10% and organized data normally by creating a timestamp averaging function
- Improved machine learning operations by 15% by using data preprocessing libraries to identify and remove fields with little correlation to the target field
- Leveraged Knowledge in Python and libraries (Pandas, NumPy), InfluxDB (time-series), SQL, Git, Agile Principles

RELEVANT SCHOOL ACTIVITIES

Software ML Member **Engineers Without Borders Project Team** **September 2019 to Present**

- Looking to increase farmers' crop yield in sub-Saharan Africa by engineering an autonomous drone and rover system for the early detection of Northern Leaf Blight in maize crops
- Transforming rover control in farm fields by developing an android UI application using Python (Kivy), where the user can draw and plan desired paths for the rover and extract geo-coordinate locations
- Utilizing: Python data libraries & Kivy, Keras, Neural Networks knowledge, Object identification, Git

PROJECTS

"Monopoly" **Spring 2021**

- Developed a fully playable monopoly game in a 3-person team with an in-depth GUI and a combined LOC ~3,000
- Utilized: OCaml & Graphics Package, Agile Development

SKILLS

Software: (Proficient): Python, Java, Git, InfluxDB, OCaml, Qlik Sense (Learning/Familiar): SQL, HTML/CSS, C++, .NET Core (C#), Kafka, AWS