SUMANT GAOPANDE

sumantgaopande@gmail.com | (812) 650-2572 | linkedin.com/in/sumantgaopande | github.com/Invictus17

EDUCATION

Master of Science in Computer Science — *Indiana University – Bloomington* — CGPA: 3.8/4 — *May 2021*
Bachelor of Computer Engineering — *University of Pune, India* — First Class (distinction) — *June 2017*

SKILLS

Programming Languages: Python, Java, Node.js, C++, JavaScript, HTML, CSS
Cloud: REST, Kubernetes, Distributed Systems, AWS (S3, EC2), Jenkins, Kafka, RabbitMQ, Docker, CI/ CD
Other: MongoDB, Git, Maven, Redis, Object-oriented software design, MySQL, NoSQL, Data Structures & Algorithms

WORK EXPERIENCE

Graduate Teaching Assistant | *Indiana University – Bloomington* — *August 2020 – Present*
- Grading & formulating Python coding assignments for CSCI – B 551 Elements of Artificial Intelligence.

Software Engineer | *Accenture Solutions Pvt. Ltd* — *September 2017 – July 2019*
- Developed a RESTful web service in Node.js to handle IP flips in set-top boxes reducing configuration time by 95%.
- Developed a Full-Stack web application using Angular and Node.js for querying test data from Couchbase streamlining the content retrieval process.
- Developed an Optical character recognition (OCR) service to identify set-top box errors using Python (OpenCV), reducing debug time to less than a minute.
- Built a Chatbot search engine in Angular, Python & Node.js that saved time spent by teams on repetitive knowledge transfer.

Engineering Intern | *Atreya Innovations Pvt. Ltd* — *July 2016 – April 2017*
- Developed a data pipeline to collect, process, and analyze signal data in MATLAB.
- Implemented Neural Net and SVM classification models to study the impact of yoga as a stimulus on wrist pulse signals.

Software Engineering Intern | *Cytel Pvt. Ltd* — *June 2016*
- Developed a windows application in C++ to automate the testing of computational engines.
- Significantly reduced the testing time of computational engines and streamlined the process.

PROJECTS

Leader Election in Kubernetes Python client – Open Source contribution — *June 2020*
- Developed a module for multi-threaded Leader Election in a Distributed Architecture using ConfigMap locks.
- Pull Request: https://github.com/kubernetes-client/python-base/pull/206

RainCheck (Java – Spring Boot, Node.js, React, Python, Docker, Redis) — *January 2020 – May 2020*
A weather forecasting Distributed System
- Designed & built scalable containerized microservices to compute precipitation graphs from Nexrad radar data.
- Implemented Continuous Integration & Deployment for the microservices in a Kubernetes cluster deployed on OpenStack cloud using Jenkins.

FindTheHorizon (Python) — *December 2019*
- Developed a Computer Vision utility that finds and paints the horizon in an image using Baye's nets and the Viterbi algorithm.

A/B Testing web application (JavaScript, Cloudflare worker API) — *April 2020*
- Developed an A/B testing web application where requests are evenly distributed between 2 versions of a webpage.
- A user will randomly get either of the 2 versions and keep getting the same webpage unless cookies are deleted.

Business optimization with Yelp reviews (Python) — *August 2019 – Dec 2019*
- Identified negative topics from customer feedback for restaurants using Topic Modelling.
- Recommended popular items/dishes in a restaurant that customers like using Named Entity Recognition.

ACHIEVEMENTS

- **Open Source contribution** to the official Kubernetes Python client. — *June 2020*
- Client appreciation award for building a REST service to handle IP flips in set-top boxes. — *December 2018*
- Runner up for 'The Most Radical Idea of The Year' at Accenture (British Telecom – Da Vinci). — *May 2019*