

SUMANT GAOPANDE

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EDUCATION

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

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

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** 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 object locks.

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 services in a Kubernetes cluster 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 (Latent Dirichlet Allocation).
- Identified competitors by clustering (Hierarchical) restaurants based on cuisine, sentiment, check-in patterns, etc.
- Recommended popular items/dishes in a restaurant that customers like using Named Entity Recognition.

ACHIEVEMENTS

- Open Source contribution** to the official Kubernetes Python client ([Review in progress](#)). *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*