# SHUBHAM SHINDE

Santa Clara, California 95050

📞 408-627-5696  ✉ shubham.shinde245@gmail.com  in linkedin.com/in/shubhamshinde245/  ○ github.com/shubhamshinde245

## PROFESSIONAL EXPERIENCE

**University of California, Berkeley**                                                         **June 2023 - Present**
*Data Analyst and AI Researcher*                                                                        Berkeley, CA
- Led end-to-end formulation initiatives within a project guided by Colleen Chien, **former Senior Advisor in the Obama White House**, focusing on **data querying and text generation using Large Language Models (LLM).**
- Conducted exhaustive research and prototyping, refining LLM training methodologies leveraging prompt engineering techniques, resulting in a **90% accuracy** while inferencing. Enhanced operational efficiency by streamlining data cleaning processes, **reducing processing time by 40%** and enabling faster turnaround for analyses and insights.
- Implemented innovative cost optimization strategies, including the utilization of vector databases and low latency at small batches, resulting in a **30% reduction in resource expenditure** while maintaining model performance. Spearheaded the development of a logical framework that facilitated rapid decision-making processes, leading to a **80% increase in project throughput** and on-time delivery.

**Amazon.com Inc**                                                                            **July 2022 - Sept 2022**
*Software Development Engineer Intern*                                                                   Seattle, WA
- Implemented and deployed functional GraphQL API, resulting in **30% reduction in data retrieval time**, enhancing data accessibility for both internal and external customers.
- Applied Agile methodology to design and implement custom solutions, **reducing exceptions and code failure incidents by 15%** and enhancing system stability during object updates, modifications, or deletions.
- Conducted over 10+ end-to-end unit tests using the Jest testing framework, ensuring a **95% code coverage and minimizing the occurrence of post-deployment issues.**

**Cognizant**                                                                                **Mar 2021 - July 2021**
*Programmer Analyst Trainee*                                                                                  India
- Actively participated in daily standup calls and weekly meetings, ensuring alignment within the team **reducing communication gaps by 80%.**
- Provided timely advance warning of critical customer issues that require additional attention, raised an average of 5 clarifications/concerns per week to project leads, resulting in a **20% reduction in project delays and blockers.**
- Maintained effective working relationships with team members & supervisors, resulting in **15% increase in team collaboration and synergy.**
- Counseled by impactful communication and leadership skills, serving as Trusted Advisor and Technology Expert to devise and implement strategy to certify, while **leading team of 25+ members to attain objectives.**

## EDUCATION

**Santa Clara University, M.S. in Computer Science and Engineering**                            **Sept 2021 - June 2023**
*Coursework: Cloud Computing, Docker Container Optimization, Solutions Architecture & Cloud, Artificial Intelligence,*   Santa Clara, California
*Big Data, Pattern Recognition, Adv. Database Systems , Design & Analysis: Algorithms, Effective Oral Tech Presentations,*

**Savitribai Phule Pune University (SPPU), B.E. in Computer Engineering**                       **Aug 2017 - July 2021**
*Coursework: Machine Learning, Data Analytics, Data Mining and Warehousing, High Performance Computing.*                  *India*

## SKILLS

| | |
|---|---|
| **Programming Languages**: | C++, Python, GraphQL, SQL, JavaScript, Typescript, HTML, CSS |
| **Technologies & Frameworks**: | LlamaIndex, LangChain, Flask, AWS, Docker, Git, Kubernetes, MySQL Workbench, Node.js |
| **Libraries**: | Llama 2, TensorFlow, Keras, Scikit-learn, Pandas, Matplotlib, Seaborn, SQLAlchemy |

## PROJECTS

**Effortless Boost | Bronco Ventures Accelerator (BVA), Python, Flask, GraphQL, AWS (RDS, EC2, Elastic Beanstalk, CodePipeline)**
- **Secured acceptance to highly competitive BVA 5**, achieving entry with solutions idea amidst a **selection rate of less than 26%.**
- Demonstrated **exceptional problem-solving skills and effective communication with customers**, resulting in the rapid resolution of issues and strengthened client relationships.
- Seamlessly managed customer responses by **integrating RDS** with the website, ensuring secure and efficient data storage. Implemented **GraphQL optimizing data retrieval from database**, enhancing read speed while minimizing API calls & delivering only required data.
- Deployed a Flask-based application within an agile development framework, leveraging well-designed system architecture on Elastic Beanstalk. Spearheading setup of **CI/CD pipelines for automated deployment**, optimizing development workflows and ensuring rapid updates.

**Accelerated Container Cold Start using SmartNIC | NVIDIA SmartNIC, Docker, Vagrant, Shell**
- Achieved **64% compression of Docker images** and efficiently cached them on SmartNIC. Ensured **uniform environment setup across 30 VM's ( using Vagrant)** to enabled secure file transfer from SmartNIC to host machine using shell scripting.
- With one of the images, we achieved a remarkable **93% reduction in retrieval time compared** to the original duration required to pull the image from Docker Hub. This significant efficiency improvement not only saved time but also led to a staggering **99.99% availability of bandwidth**, ensuring seamless operations and enhanced performance.

**Deep Learning Researcher Gifted Labs | Python, Tensorflow, Keras, Matplotlib, Numpy, Convolutional Neural Network (CNN), ANN**
- Assisted Principal Investigator Dr. Jun Wang, leading GIFTED Lab **awarded $249,829 grant** to develop deep learning algorithm for large scale image generation using Generative Adversarial Network (GAN) and CNN.
- **Implemented GAN model using Tensorflow**, including creation of generator and discriminator model, which are trained against each other.

## AWARDS & CERTIFICATIONS

| | |
|---|---|
| **WINNER** Hack For Humanity 2023 (Best Use of Gaming Technology) | **June 2022** |
| **AWS Certified** Solutions Architect – Associate (SAA) | **June 2022** |
| **ServiceNow Certified** Certified Application Developer  (CAD) | **June 2021** |
| **ServiceNow Certified** Certified Systems Administrator (CSA) | **May 2021** |