

SHUBH KHANDELWAL

Full-Stack Software Engineer | Python, JS, Java | ML/AI/NLP Enthusiast
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EDUCATION

Arizona State University, Tempe, AZ

Aug 2020 - May 2024

BS in Computer Science (Dean's List Recipient)

GPA: 4.00

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Database Management, Principles of Programming, Advanced Physics (UGTA), Advanced Machine Learning

PROFESSIONAL EXPERIENCE

Machine Learning Researcher

Tempe, AZ

Data Mining and Machine Learning Lab · ASU

May 2023 - Aug 2023

- Conducting pioneering research in Prompt Adversarial Training and Generative Adversarial Attacks, using machine learning frameworks such as TensorFlow and PyTorch. Under the guidance of Dr. Huan Liu and Raha Moraffah, designed and executed TextAttack-based adversarial evaluations on fine-tuned Roberta models, significantly contributing to the lab's research in fake news detection and model robustness.

Full-Stack Software Engineering Intern

Bellevue, WA

Smartsheet Inc. · Licensing and Payments team

May 2023 - Aug 2023

- Developed 30+ **REST API** SaaS architecture services using Java, Maven, Spring Boot, MySQL, DynamoDB, JavaScript, ReactJS, NodeJS, Docker and Ansible to support multi-line item subscriptions.
- Provisioned AWS instances using Terraform, Terragrunt and Docker. Wrote JUnit tests to improve library automated test coverage by 87%. Configured the Lingoport Globalyzer and CI/CD pipelines in 8 Git repositories to promote internationalization and generate i18n reports.

Machine Learning Research Assistant

Mesa, AZ

W.P. Carey Morrison School of Agribusiness · ASU

Jan 2023 - Present

- Working with Prof. Lauren Chenarides to create [DIFA](#), a comprehensive data catalog tool that provides dataset-specific information, elevating the research capabilities of agricultural and applied economists.
- Leveraging Machine Learning, Named Entity Recognition, NLP using Spacy and TensorFlow for dataset detection and Neo4j Graph DB for computation of linkage metrics using a knowledge graph.
- Created Python web scrapers for **200+** datasets using Selenium and a Full-Stack Web App and REST APIs using Django to display the knowledge graphs. [Hosted](#) with auto-scaling on AWS EC2.

Software Developer Intern

Tempe, AZ

School of Earth and Space Exploration · ASU

Apr 2022 - Jan 2023

- Developed and maintained software applications for the **MARS-2020 MastCam-Z NASA space mission operations** using Python automation scripting, Django, Linux MakeFiles, jQuery, PostgreSQL.
- Implemented a new search portal to display the sequences, images, and observations data captured by the **Mars Rover** and a caching mechanism resulting in a 90% reduction in search time.

CTO and Co-founder

MP, India

Infocard

Apr 2022 - Present

- Co-founded [Infocard](#), an NFC digital business card startup, which elevates the networking capabilities of professionals. Led the design and development of the platform using technologies like MongoDB, Express.js, React, Node.js, Redux and Bootstrap. Serving over **700+** infocard users worldwide.

PROJECTS

Sentiment Analysis as a Service · NLP, NLTK, Django, Heroku

[GitHub](#)

- Leveraged Natural Language Processing to analyze text, tokenize words and compute the sentiment score.
- Developed REST APIs and a web application using Django to provide access to the analysis results.

Zuckbook · Flask, MySQL, Bootstrap

- A comprehensive Instagram clone, leveraging Flask and MySQL for the management and storage of user data, photo data, and other essential platform information.

CERTIFICATIONS AND LEADERSHIP INVOLVEMENT

Technical Officer · Software Developer Association of ASU

Jan 2023 - Present

- Managing an organization with 2200+ members as a Technical Officer, leading technical presentations on Python Automation, Machine Learning, Git and Modern Tech Stacks within the industry.

AWS Certified Cloud Practitioner

Aug 2022

TECHNICAL SKILLS

Languages:	Python, Java, JavaScript, HTML, CSS, C/C++, C#, SQL, Dart
Tools/Frameworks:	Django, Flask, Node.js, React, Linux, MVC, Bootstrap, jQuery, AJAX
DB:	PostgreSQL, MySQL, SQLite, ORMs, Redis, MongoDB, DynamoDB
DevOps:	JUnit, Agile, Scrum, Maven, Git, REST APIs, Ansible, Jira, Docker