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

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, Javascript, Spring Boot, MySQL, DynamoDB, Maven, ReactJS, NodeJS, Docker and Ansible to support multi-line item subscriptions.
- Engineered a serverless architecture using AWS Cloudwatch, ECS, Lambda, SQS and SES to automate email notifications for Seamless Trial Evaluations, resulting in a scalable and cost-efficient solution.
- Provisioned AWS instances using Terraform, Terragrunt and Docker. Wrote JUnit tests and integration 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.

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.

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. Deployed with auto-scaling on AWS EC2.

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.

Worksheet Wizard · *Flask, React, SQLite, Cohere LLM* · Devpost
- An innovative AI-powered educational platform, for UCLA Hackathon; the platform automatically generates custom worksheets from diverse multimedia content, utilizing Python, Flask, Cohere API, and NLP.

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, Spring, Linux, MVC, Bootstrap, jQuery, AJAX
DB:	PostgreSQL, MySQL, SQLite, ORMs, Redis, MongoDB, DynamoDB
DevOps:	JUnit, Agile, Scrum, Maven, Git, REST APIs, Ansible, Jira, Docker