# SHIKHAR RAI

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## Software Development Engineer

An inquisitive mind focused on creating scalable solutions and enhancing performance. Enthusiastic about leveraging technology to drive innovation and solve complex challenges.

## SKILLS

- **Languages & Frameworks:** JavaScript (Node.js and Express.js), Ruby, Python, Golang, HTML, CSS
- **Databases:** Databases (Relational: SQL, Postgres, NoSQL: MongoDB)
- **Development Tools & Technologies:** AWS Cloud (S3, EC2), Docker, Linux, CI/CD, Git, GitHub Actions, Selenium, RESTful APIs, Agile/Scrum, SDLC, AI (LangChain, Vector Databases)
- **Computer Science Fundamentals:** Data Structures, Algorithms, System Design, Distributed Systems, Operating Systems, Networking

## PROFESSIONAL EXPERIENCE

- **Python Developer – July 2024 – Aug 2024**
  Algo One - Bengaluru, India (Investments and Trading Services)
  - **Development: Python, Django, LLMs, Finance (Investments and Securities Markets, Stocks, Options)**
  - Worked on defining Client Requirements and forming a Product Requirements Document.
  - Successfully designed and implemented efficient, reusable, and reliable Python code, contributing to the development of high-quality solutions that consistently met project requirements and deadlines.
  - Upheld Coding best practises, Debugged and Troubleshot, participated in code reviews.
  - Held educative seminars on Python and principles like KISS, DRY.

- **Backend developer – May 2022 – Jun 2024**
  WiseApp - Bengaluru, India (Online Education Services)
  - **Development: JavaScript (Node), Ruby (Rails), Python, MongoDB, AWS (S3, Cloud Watch)**
  - Enhanced system functionality by creating itemized fine-grained invoices, resulting in a 20% decrease in customer support inquiries.
  - Spearheaded the development of key end-to-end features for the product, encompassing Courses, Dashboards, Historical Data Management, and Reports.
  - Revamped payment routing infrastructure to integrate payment gateways (such as Stripe), overseeing payment reconciliations and webhooks to facilitate international transactions.
  - Streamlined API management, crafted comprehensive documentation using Postman, and played a crucial role in implementing Test-Driven Development methods.

- **Member of Technical Staff – Software Engineer – Nov 2021 – Apr 2022**
  LambdaTest - Noida, India (Enterprise Cloud Testing Software)
  - **Development: JavaScript (Node), Python, SQL, AWS S3**
  - Managed backend infrastructure and built / troubleshoot features in simulators with Golang and SQL.
  - Led backend design initiatives for Android as the Single Point of Contact (SPOC), leveraging Golang and Docker to achieve a 95% stability rate.
  - Enhanced product by integrating new features across both front-end and back-end (Node.js, SQL).
  - Enhanced deployment efficiency by establishing pipelines through GitHub Actions and YAML for seamless production environment deployments.

- **Software Development Engineer in Test – Jan 2021 – Oct 2021**
  HackerEarth - Bengaluru, India (Online Coding and Assessment Proctoring Platform)
  - **Development: Python, Selenium**
  - Took full ownership of components, overseeing feature additions from design to deployment.
  - Successfully implemented weekly deployment schedules for new features, ensuring timely releases.
  - Collaborated with the team on critical automation projects, using tools like Selenium and Python.
  - Developed detailed test documentation and reports for various features, documenting QA metrics to enhance quality assurance processes.

- **Systems Reliability Engineer Intern – Jan 2020 – Jun 2020**
  Nutanix - Pune, India (Datacentres and Hybrid multi-cloud deployments)
  - **Development: Linux, Virtualization, Networking.**
  - Developed from scratch, an internal Calendar tool using HTML, CSS, and JavaScript.
  - Built a customized Linux Operating System from scratch with various libraries and Ubuntu as the base.
  - Successfully completed training program about Linux Kernel, storage virtualization, networking, VMware, and Nutanix's Architecture.
  - Learnt troubleshooting techniques related to Linux Kernel, Networking and Virtualization on Nutanix and VMware Platforms.
  - During this time, I acquired CCNA certification.

## EDUCATION
- **Bachelor of Engineering in Computer Science and Engineering – 2016-2020**
  - Chandigarh University, Mohali – **8.18**/10 CGPA
- **Senior Secondary Education (Mathematics + Biology)**
  - Army Public School, Prayagraj (C.B.S.E.) (2016) – **92%**

## PROJECTS
- **Anime watch tracker (Django, Python, HTML, CSS, JS, SQLite)**
  Developed an app for tracking anime watching history, featuring user login, show tracking, episode marking, and library management, with plans to implement episode release notifications.
- **URL Shortener (Django, Python, HTML, CSS, JS, SQLite, Secrets)**
  Built a service for generating and managing short URLs, with unique hashes, and redirect functionality.
- **Video downloader (Python, Curses, Requests, File IO, Multiprocessing, Multithreading)**
  Created a CLI tool for concurrent video downloads from URLs, with a dynamic display of download statuses.
- **Game of life (Python, Pygame)**
  Programmed a cellular automaton based on Conway's Game of Life, displaying the evolution of cells with no further input required after the initial state.

## CERTIFICATIONS AND AFFILIATIONS
- Meta Back-End Developer Professional Certificate – Currently Working
- JPMorgan Chase & Co. Virtual Experience Program – Dec 2020
- Google IT Automation with Python Specialization – September 2020
- AWS Fundamental course Udacity – Aug 2020
- Cisco Certified Network Associate (CCNA) (Routing and Switching) – February 2020
- HackerRank Problem Solving (Intermediate) Certification – August 2020
- Cryptography and Network Security – NPTEL Elite Certificate – April 2019
- Soft Computing – NPTEL Elite Certificate – March 2019

## ACHIEVEMENTS
- Awarded HackerEarth SPOT Award for independently ensuring the on-time release of crucial features.
- Contributed to open-source projects during Hacktoberfest in 2020 and 2021.
- Attained HackerRank's 6 Star Problem Solver status and a Gold Badge in Python.
- Secured a Bronze Medal in the Global Assessment of Information Technology.
- Surpassed the 99th national percentile in English, Advanced Quant, and Programming on AMCAT.

## EXTRACURRICULARS AND INTERESTS
- Love my Dogs.
- Experienced in public speaking.
- Enthusiastic about Rubik's cubes.
- Plays Badminton, Basketball, Football, E-sports.