

# Arul Kumar

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## WORK EXPERIENCE

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### Technical Support Intern

Jul 2022 – Dec 2022

CMS IT services | Chennai, TN

- Strategically optimized the product's infrastructure on AWS, resulting in a remarkable cost reduction of over 50% while fortifying network security.
- Improved the product's availability and fault tolerance through dynamic horizontal scaling on AWS, ensuring uninterrupted service and enhancing user experience.
- Automated integration testing using PyTest, effectively saving over 4 hours of manual testing time in each sprint.
- Developed Python scripts to streamline product installation on customer sites, significantly reducing onboarding time by over 200%.
- Actively engaged with potential customers as the lead developer, providing technical guidance and support to drive customer success which increased product adoption by over 20%.
- Architected and developed a cloud-native version of the product on Kubernetes and packaged it as a Helm chart for ease of deployment, distribution and versioning.
- Enhanced operational efficiency by implementing GitOps at scale using Rancher Fleet, enabling centralized management of multiple K8s clusters on a single dashboard.
- Established robust Kubernetes cluster monitoring through Prometheus & Grafana and introduced container log aggregation using Grafana Loki.
- Implemented a reliable cluster backup and restore solution using Velero, guaranteeing data integrity and swift disaster recovery.

### Python Developer

June 2023 – Oct 2023

Hackwit Technologies Pvt Ltd | Chennai, IN

- They may work on a variety of projects, ranging from customer relationship management (CRM) tools to collaboration and productivity applications.
- work with databases to ensure efficient storage and retrieval of data. They might use database technologies that complement Python, such as MySQL or PostgreSQL.
- Implemented a system to track asynchronous data transfer jobs through AWS AppFlow, which reduced the issue tracking time to under 5 mins.
- Developed a Salesforce System using SFDX to provide clients with a customized experience within their Salesforce dashboard.
- Developed a Slack bot that sent interactive daily notifications to customers, enabling them to take direct actions from Slack. This streamlined operations and boosted sales by over 50%.

## Process Associate

HCL Technologies Limited | Chennai, IN

Feb 2024 - Present

- As a dynamic Process Associate at HCL Tech, I specialize in the art of decoding data through advanced database analysis techniques, orchestrating seamless buying processes, and crafting insightful forecasting reports that drive informed decision-making. My role extends to the frontline of deployment and networking support, where I excel in architecting robust solutions that keep systems running at peak performance.
- Utilizing cutting-edge tools such as Python for testing and predictive analysis, I've honed my ability to uncover hidden insights within data, transforming raw information into strategic assets. I thrive in the fast-paced environment of technology, where adaptability and innovation are key. Collaborating with diverse teams, I've mastered the art of effective communication and teamwork, ensuring that projects are delivered with precision and excellence.
- My journey at HCL Tech has been a testament to my passion for problem-solving and my dedication to delivering results that exceed expectations. I look forward to bringing my unique blend of skills and experience to contribute to your team and drive success in our shared endeavors.

## PROJECTS

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### Booking Management System

[View in GitHub](#)

- A Python-based Booking Management System efficiently handles reservations and appointments. This system streamlines the booking process, offering a user-friendly interface and robust functionalities.
- Key features include real-time availability checks, secure user authentication, automated email notifications, and an intuitive dashboard for administrators.
- The system ensures seamless coordination, reduces errors, and enhances customer satisfaction.
- With modular design and scalability, this Booking Management System is adaptable to various industries, providing a reliable solution for organizing and optimizing booking workflows.

## Obsidian Publish using GitHub Action

[View in GitHub](#)

- Developed a NodeJS application to parse and convert Obsidian notes to MkDocs markdown format.
- Built a CICD pipeline using GitHub Actions to publish the notes as a static website every time the notes are modified.

## CERTIFICATIONS

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IITM Artificial Intelligence and Machine Learning (GUVI)	<a href="#">View credentials</a>
Python Application ( GUVI)	<a href="#">View credentials</a>
MySQL (GUVI)	<a href="#">View credentials</a>
Microsoft 365 Copilot (Linkedin)	<a href="#">View credentials</a>
Github Project Management and collabroration (Linkedin)	<a href="#">View credentials</a>
Career Essential in Generative AI (Microsoft)	<a href="#">View credentials</a>
Career Essential in Github Professional (Linkedin)	<a href="#">View credentials</a>
Cybersecurity Foundation (Linkedin)	<a href="#">View credentials</a>

## EDUCATION

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<b>Bachelor of Engineering (B.E.) - <i>Electronics and Communication</i></b>	June 2019 - May 2023
CGPA 8.78   Hindusthan Institute of Technology, Coimbatore  TN	
<b>Higher Secondary Education (HSC 12th)</b>	July 2017 - May 2019
Grade 68%   Ramaswamy Pillai Matric Higher Secondary School, Tenkasi	
<b>Secondary School Education (SSLC 10th)</b>	July 2016 - May 2017
Grade 89%   Spectrum Matric Higher Secondary School, Tenkasi	

## SKILLS

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DevOps | Docker | Docker Compose | Kubernetes | CI/CD | GitOps | Argo CD | Helm | Jupiter |  
GitHub Actions | Cloud | AWS | GCP | Ansible | Automation | Terraform | Python | TypeScript |  
Backend Development | FastAPI | Bash | Scripting | Linux | Logging | Monitoring | Prometheus |  
Grafana | Project Management | Communication | Leadership | Time Management | Adaptability  
| Problem Solving | Teamwork | Creativity.