

# Uday Vikram Singh

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## Education

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**M.Tech, BITS Pilani(WILP)**  
**Software Engineering**

*Aug 2024 – July 2026*

- **Coursework:** Applied Machine Learning, Cloud Computing, DevOps, Software Product Management

**B.Tech, SRMCEM**

*Dec 2020 – June 2024*

**Computer Science and Engineering**

- **Coursework:** Data Structure, Design and Analysis of Algorithms, Operating System, DBMS

## Experience

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**Scholar - ICE , IPE Energy ENG BLR**  
**SAP Labs, India**

**Bangalore, India**

*August 2024 – Present*

**Integrating Joule to a S/4HANA app:**

- Developed a PoC for the Joule use case, validating multi-product input and dynamically returning key details such as plant name and storage location for the Oil and Gas sector.

**SSAM Mobile development IOS and Android:**

- Delivered clean production code, contributing to the successful first release of FL and EWM personas of SSAM, while collaborating with a global team across US and Budapest time zones to ensure smooth and timely delivery.
- Stabilized the mobile app by fixing 30+ critical bugs, ensuring seamless functionality for FL and EWM personas.
- Boosted app performance on iOS and Android, reducing crash rates by 25% and improving load times by 50%, delivering a more reliable user experience.
- Mentored a colleague, providing KT sessions, and helping him to up-skill in mobile development.
- Selected for **InnVent for Scholars 2K25**.

## Technologies

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**Languages:** JavaScript, Python, ABAP, SpEL, SQL, Java(SpringBoot)

**Tools, Platforms and Frameworks:** Joule, SAP MDK, XCode, Git, HTML, CSS, MySQL, Docker, Flask, Linux (Learning CAP)

## Projects

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**Document Tampering Detection**

[udaysingh21/DTD](#) 

- Developed a Document Tampering Detection solution using algorithms and machine learning to ensure digital document authenticity and security.
- **Tools Used:** Python, Machine Learning, TensorFlow, scikit-learn, Image Processing, and Algorithm Design.

**Serverless App**

[udaysingh21/Serverless](#) 

- Implemented a fully automated CI/CD pipeline with AWS, integrating testing, linting, deployment, and monitoring in line with DevOps best practices.
- **Tools Used:** AWS Lambda, AWS CloudWatch, GitHub Actions, GitHub Secrets, JavaScript, Jest, ESLint,

## Publications

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**Document Tampering Detection**

Jan 2024

<https://doi.org/10.22214/ijraset.2024.57867> 