

# Hrishikesh Pingle

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## Skills

**OS** Linux, Windows  
**Languages** Java, Python, Dart, TypeScript, C++, Rust  
**Frameworks** React/Next.js, Flutter, Svelte, ROS2

**Databases** MySQL, Firebase, Postgres  
**Hardware** STM32, ESP32, Arduino, RaspberryPI  
**SCM** Git/Github

## Experience

### Onward Technologies

Jun 2024 – Jul 2024

Software Engineering Intern

Client: Bentley Motors

- Conducted comprehensive Exploratory Data Analysis (EDA) to develop three proof-of-concept (POC) models for the marketing team, resulting in a 40% improvement in targeted campaign effectiveness and engagement metrics.
- Used Jupyter Notebook to collaborate with the team.
- Used Pandas, NumPy, SciPy, Matplotlib, Seaborn, Scikit-learn, Statsmodels, Plotly for cleaning data, processing data and display the data.

#### Dashboard

- Engineered an interactive dashboard utilizing Svelte to visualize cloud expenses from Azure, AWS, and GCP APIs, enabling real-time tracking of expenditures while integrating a forecasting feature that accurately predicted monthly costs with an 85% accuracy rate.
- I was the best SWE intern there (I was the only intern there).

### WINspect Technologies Pvt. Ltd.

Dec 2023 – Jan 2024

Website Developer

- built a multi-page comprehensive website that presents more than 20 products and services, resulting in a 40% increase in online engagement metrics within the first quarter of launch.
- Streamlined user experience through innovative design and intuitive navigation, leading to a reduction in site bounce rates by 30% and enhancing average session duration by 25
- Optimized website performance using SEO best practices, achieving a top-three ranking for target keywords and boosting organic traffic by 150%, significantly increasing brand visibility.

## Projects

### Rogue Access Point

Personal

- Developed and implemented a proof-of-concept for a Rogue Access Point (Evil Twin) using ESP32, demonstrating vulnerabilities in unencrypted Wi-Fi networks and the risk of credential phishing.
- Configured ESP32 as a simulated access point to mimic legitimate Wi-Fi networks, effectively illustrating the process of network impersonation and the capture of user credentials.
- Designed and deployed a custom web server on ESP32 to serve a deceptive login page, capturing and logging user input.

### ROS2 Visualization Environment

Google Summer of Code 2025

- Developed a modular client-server architecture in ROS 2 (Foxy and Jazzy), visualizing live node communication as Directed Acyclic Graphs (DAGs) using Svelte and Mermaid, with support for dynamic graph updates via service requests.
- Engineered and integrated ROS 2 packages using `rc1py`, `rc1nodejs`, C++, and TypeScript; configured build environments with `colcon` and `npm`, and authored complete end-to-end READMEs for reproducibility.
- Proposed advanced visualization enhancements using D3.js and deployment with Tauri, showcasing foresight in scalability and cross-platform support.

### PNT Monitoring Tool (Under Development)

Personal

- Developed a web-based PNT monitoring dashboard inspired by Safran's SecureSync 2400 and White Rabbit, using Svelte, TypeScript, and Tailwind CSS to create a responsive interface for visualizing timing and synchronization data.
- Designed a modular frontend architecture to support future integration of MIB files for real-time display of PNT metrics, such as GNSS-based time synchronization and sub-nanosecond precision data.
- Planned and prototyped alert functionalities to enable proactive monitoring of network timing anomalies, aligning with White Rabbit's high-precision synchronization protocols.

### Terminal-Based Chat System (termMC)

Personal

- Built a lightweight, terminal-based chat server and client in Rust, implementing multi-user communication using TCP sockets and multithreaded message handling.
- Designed a custom message broadcasting system that supports real-time updates, username prompts, and event logging, simulating Minecraft-style in-game chat mechanics.
- Added color-coded terminal output using ANSI escape codes to improve message clarity and UX, with plans for secure messaging and user authentication.

## Education

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**Bennett University - 2027**

*Bachelor of Technology in Computer Science and Engineering*  
*Specialization: Cyber Security*

**Certifications**

- Google - Foundations of Cybersecurity
- ISC2 - Security Principles
- IBM - Introduction to Cybersecurity Tools and Attacks
- University of California San Diego - Data Structures
- IBM - Databases and SQL for Data Science with Python

## Extracurricular Activities

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**Google Developer Groups on Campus Bennett University**

**Aug 2024 – Present**

- Served as Tech Track Lead
- Helped organize all events related to GDG

**SPARK - Entrepreneurship Cell**

**Feb 2025 – Present**

- Served as Tech Team member