Hrishikesh Pingle

📞 +91 9137985297 — ✉ hppingle@yahoo.com — 🔗 linkedin.com/in/hppingle — ⌨ github.com/Blaeriz — ⌨ hppingle.tech

Skills

OS	Linux, Windows	**Databases**	MySQL, Firebase, Postgres
Languages	Java, Python, Dart, TypeScript, C++, Rust	**Hardware**	STM32, ESP32, Arduino, RaspberryPI
Frameworks	React/Next.js, Flutter, Svelte, ROS2	**Version Control**	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, Ploty 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 for educational purposes.
– Designed and deployed a custom web server on ESP32 to serve a deceptive login page, capturing and logging user input to understand the mechanics of phishing attacks.

ROS2 Visualization Environment   **Google Summer of Code 2025**

– Developed a ROS 2 client-server system and web-based visualization tool, integrating C++ based ROS 2 services with a Svelte and Mermaid frontend to visualize node communication as Directed Acyclic Graphs (DAGs).
– Implemented a service-based communication package using `rclpy` in ROS 2 Foxy, enabling request-response data exchange, and visualized interactions using `rclnodejs`, Svelte, and Mermaid in ROS 2 Jazzy.
– Configured ROS 2 workspaces with `colcon` and `npm`, authored modular Python and TypeScript code, and documented setup in comprehensive READMEs, ensuring accessibility and maintainability.
– Proposed advanced tools like D3.js and Tauri for enhanced DAG customization and cross-platform deployment, demonstrating strategic thinking for scalable robotics applications.

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.

Education

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

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