

PRABHAT KUMAR

official@oblivious.me ♦ oblivious.me ♦ linkedin.com/in/prabhatk2043/ ♦ github.com/neo2043

EDUCATION

Amity University

Bachelor of Technology in Computer Science and Engineering

Noida, India

Aug 2021 – Jun 2025

- **CGPA:** 7.08 CGPA
- **Courses:** Applied Cryptography, Generative AI, Cyber Security, Exploring Networks, Data Structures in C

SKILLS, LANGUAGES, INTERESTS

- **Programming:** Zig, Rust, Java, C/C++, Golang, Python, Javascript, Typescript, SQLite, MongoDB, HTML/CSS, React, Next.js, Tailwind CSS, Node.js, Browser Extension Dev
- **Tools:** Git, Docker, Visual Studio Code, PlatformIO, ESP-IDF
- **Soft Skills:** Communication, Critical Thinking, Leadership, Persuasive Writing, Technical Writing

WORK EXPERIENCE

Locamart Online Services

Backend Developer Intern

Noida, India

May 2024 – Jul 2024

- Designed and implemented scalable backend systems for Locamart's B2B and B2C platforms, resulting in significantly improved system performance and reduced API request latency.
- Enhanced platform reliability and uptime by building resilient APIs and optimizing backend infrastructure using cloud technologies such as AWS/Azure/GCP.
- Collaborated closely with cross-functional teams (product, design, frontend) to accelerate feature delivery cycles and maintain high product quality standards.
- Applied best practices in backend architecture, API development, and cloud deployment, contributing to a more stable and maintainable codebase.

PROJECTS

MNIST ESP-Cam

Number Identifier using ESP-Cam

Apr 2025 – May 2025

- Utilized an ESP32-CAM to wirelessly stream live video to a PC over Wi-Fi, leveraging its onboard camera and connectivity features.
- Processed the MJPEG stream with an MNIST-trained model on the PC to recognize handwritten digits in real time.

Web-Serial Debug

Serial Over Web

Apr 2025 – May 2025

- Connect and communicate with serial devices directly from a Chromium browser using the modern Web Serial API.
- Features include real-time data exchange, adjustable baud rates, and a clean, cross-platform browser interface.

Pack.c

Cross Platform Compression Tool

May 2024 – Jul 2024

- Built a C-based compression utility combining Zstd's high-speed, high-ratio algorithms with SQLite for robust metadata handling and storage.
- Tuned compression/decompression workflows to maximize throughput and minimize latency, while exposing a simple API for seamless integration with a wide range of existing software.

OpenCCTV

Open Source Surveillance System

Apr 2024 – May 2024

- Developed an embedded surveillance setup on ESP32-CAM boards with custom firmware for live video capture.
- Created a Go-based central server and auto-connect feature so each ESP32 node can discover and maintain a persistent connection, ensuring uninterrupted monitoring.

Stash-IT

Browser Tab,Bookmark Exporter

Jan 2024 – Apr 2024

- Designed and built a Chrome Extension leveraging the Chrome API to export and import browser tabs and bookmarks as structured JSON, enabling seamless session backups.
- Added a granular export option so users can select specific groups of tabs or bookmarks for JSON download, improving flexibility and workflow control.

FireWatch

Chat Application made with ESP32

Sep 2023 – Dec 2023

- Engineered an ESP32-based embedded chat application for real-time text messaging between connected devices.
- Implemented dual-mode networking:- in Access Point Mode the node broadcasts its own Wi-Fi SSID for clients to join, and in Station Mode it connects to an existing Wi-Fi network to remain reachable by clients.

LICENSES AND CERTIFICATIONS

Python for Data Science

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Jul 2024