Prashant Shrestha

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Summary

• Self-motivated computer science graduate student with software development experience through multiple open source contributions (100+ stars) and self-made projects (1000+ users).
• Experienced with a wide variety of technology stacks, disciplines, and best practices including full-stack development, project management, and distributed computing.
• Currently conducting cutting-edge research on urban traffic optimization using connected and autonomous public vehicles.

Experience

Co-Founder/CTO

glober

Apr 2022 - Present (7 months +)

• Co-founded glober - https://globerjp.com (an event-sharing platform for students) as a student startup.
• Developed and deployed a complete event-sharing site from the ground up. Currently at 40+ events and 400+ students from all over Japan.
• Contributed features include a robust content management system for events and blogs, event group chat, event calendar integration with Google, Apple, and other calendars, interactive event photo sharing feed, privacy preference manager, resume & survey builder, and many more.

System Software Engineer

CollaboGate

Sep 2021 - May 2022 (9 months)

• Started an open-source library for decentralized identity encryption currently used by over 100+ developers and reported directly to the CTO.
• Wrote the core encryption library following W3C standards in rust and web assembly.
• Performed low-level integration with FreeRTOS ARM Cortex-M33 microprocessor.
• Developed a multi-hop routing protocol over a distributed network of microprocessors and more.

Education

Tokyo Institute of Technology

Master's degree, Computer Science

2021 - 2023

Computer Science major with minor in leadership.

Relevant coursework: Fault-Tolerant Distributed Algorithms, Dependable Computing, Cyber-Physical Systems, High-Performance Computing, Practical groupwork for leadership.

Research: Working on traffic optimization and safety improvement using cutting-edge autonomous public vehicle models.

Tokyo Institute of Technology
Bachelor's degree, Mechatronics, Robotics, and Automation Engineering
2017 - 2021
Robotics major with a minor in Computer Science.

Relevant Coursework: Feedback Control, Linear System Theory, Creative Robot Systems Design, Parallel Programming, Object-oriented Programming, Functional Programming, Compiler Construction, Operating Systems, Computer Networks, Databases, etc.

Research: Developed a novel Recurrent Neural Network machine learning model to estimate the extent of mild Traumatic Brain Injury on traffic accident victims using time series head impact data.

Licenses & Certifications

Japanese Language Proficiency Test (JLPT) Level N1　（日本語能力試験、最上級)
- JEES - Japan Educational Exchanges and Services

Skills

Functional Programming • Object-Oriented Programming (OOP) • Vue.js • Serverless Computing • HTML • SASS • Git • JavaScript • Python (Programming Language) • C++

Honors & Awards

Tokyo Tech Programming Camp 2021 Best Performance Award - Tokyo Institute of Technology
2021.10 - 2021.12
Pitched the idea and built a Tokyo Tech exclusive event exchange platform - T2Meet. Won the best performance award among 12 other teams.

MEXT Scholarship Recipient - MEXT
2016.04 - 2021.03
Japanese government scholarship for high-achieving international students, covering tuition and living expenses.

Rotary Yoneyama Scholarship - Rotary Yoneyama Foundation
2022.04 - Present
International Rotary Club Scholarship for exceptional international students studying in Japan.