

Pankaj Kumar Thapa

Member of Technical Staff 3

An experienced C++ developer with 10 years of hands-on experience in the area of software design and development. Expertise in end-to-end software development life cycle processes and experienced in carrying out impact analysis, project review and documentation.

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WORK EXPERIENCE



Member of Technical Staff 3

June 2021 – Present

(Bangalore)

- Working as a VMware's Blockchain (VMBC) developer in C++17.
- Implemented ASAN and TSAN reports in Github's CI runs.
- Working on enhancing the PKI algorithms (RSA, ECDSA, EdDSA-X25519) used in VMBC for digest generation, signatures and verifications of replica messages using standard cryptographic libraries such as OpenSSL, Crypto++, and Relic.

Honeywell

Advanced Software Engineer

April 2019 – June 2021

(Bangalore)

- Worked as a senior C++/Qt developer on Honeywell's Integrated Controller Working Position (ICWP) product for Dubai, Incheon, and Gatwick airports.
- Code review of team members.
- C++11, Qt, Perl, Shell Scripting, Data Structures, Algorithms, STL, Python, Linux.
- Google Test, Sonarqube, Bamboo, CI/CD.

Project Glimpse: ICWP is the advanced L4 GUI application running on Linux platform to assist the Air Traffic Controller Officers (ATCO) with Surveillance and Routing on Aerodrome.



Principal Engineer

September 2015 – April 2019

(Bangalore)

- Worked as a C++ developer on POS terminals: Ingenico (Move/2500, Link/2500, iCT220, iWL, & iCMP).
- Experience in DLL (C) and JAR (Java) development.
- Serial Port (RS-232) programming using Win32 API(s).
- Lead a team of 3 for product design and development on Ingenico's Tetra terminals.
- C, C++, STL, Data Structures, Algorithm, Multithreading, Basic Java, Linux.

Project Glimpse: The uniPAY NEXT is an application communicates with the billing application (in desktops) and POS terminal which prompts to swipe customer's card. EDC reads the exact amount present in the billing. This prevents human entry error.



Software Engineer

April 2012 – September 2015

(Bangalore)

- Developed embedded applications on SIM cards OS and filters (both Native Cards and Java Cards).
- Optimization of XRAM variables for SIM cards.
- Worked on SIM Toolkit, Dynamic STK, 2G/3G Smart Card OS.
- Experience in GSM 11.11, GSM 11.14, GSM 03.40, & GSM 03.48 standards.
- C, Java card.

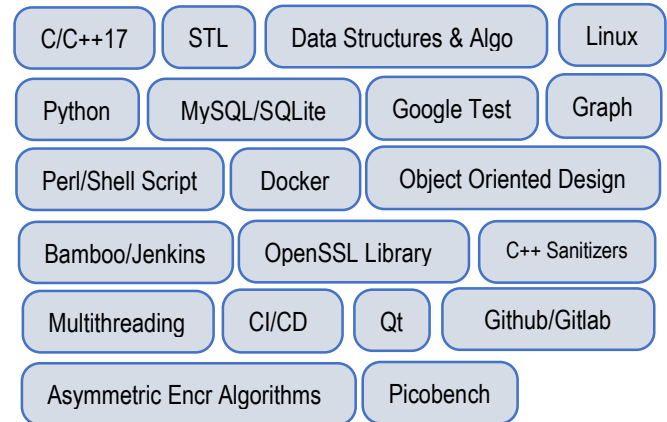
Project Glimpse: The SIM card houses an application (usually developed in C or Java) which is responsible for deciding which mobile network to latch on. The application chooses the network with lower calling cost, thereby reducing the call cost of a user.

EDUCATION

Bachelor of Technology in Information Technology

Mizoram University 2007 – 2011 (CGPA: 8/10)

SKILLS



LANGUAGES

English, Hindi, Nepali, Assamese

HONORS AND AWARDS

- Bravo award for code design and development for Mobile Label changes (Sep 2020) - **Honeywell**.
- Awarded for implementing Remote Upgrade feature on Ingenico's POS terminal and Java client (Nov 2017) - **Innoviti**.

CERTIFICATIONS

- Six Sigma Green Belt.
- Python (Data Structures & Access to Web Data).

ACHIEVEMENT

- Selected from India for "Discovery Leadership Programme-2014" in San Francisco, California.

INTEREST

- Steganographic Tool in C++.
This tool is used for hiding normal text data in an encrypted data format. The encrypted data is hidden in a 24-bit bitmap (.bmp) image.

HOBBIES

- Travelling, music, gardening, cooking.

I hereby declare that the information mentioned herein is true to the best of my knowledge.

Pankaj Kumar Thapa
Bangalore