

# Curriculum Vitae

## Personal and Contact Information

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Photo:



## Key Strengths

I believe in doing things the right way and not just doing them. I emphasize clean and simple architecture. My strengths can be outlined as below.

- Information and database design/modelling
- Designing systems that address the modern demands of high volume data
- Designing and implementing secure web-services
- Information security
- Identity management

I am very interested in big data technologies in general, data analytics and data/information architecture.

## Technical Skills

Programming Java (Expert), C#, PHP, Python (beginner)  
Database MySQL, MS SQL, Cassandra  
Data Analytics Storm, Esper, Spark  
Messaging/Queue Kafka, MQTT  
Caching EhCache, Redis  
Testing JUnit, DBUnit  
Process Scrum, TDD  
Collaboration Confluence, Jira

## Professional Experience

Aug. 2014 - Present **IWMAC AS - Lead Developer / Technical Project Manager**

- Project Management
  - Lead the development team for project Checkpoint
  - Planning, requirements analysis and reporting of progress
  - Communicating with external consultants
  - Planning and coordinating Scrum team
- System Architecture
  - Design databases, data models and web services
  - Design and develop system to handle the huge volume readings from a large set of sensors
  - Data analytics and RESTful API for accessing these data
  - Architectural discussions and meetings
- Key responsible in integrating several backend components

Tools used: *Java, Storm, Kafka, Cassandra, Esper, Mule, Jira, Confluence, Tomcat, EhCache, Redis*

Apr. 2014 – Aug. 2014 **SAP Norge - Senior Developer**

Sep. 2010 – Mar. 2014 **SAP Norge - Developer**

- Work on SAP's Identity Management (IDM) software - a system that allows management of authentication, authorization, roles, and privileges within and across different platforms.
- Integration with GRC (Governance, Risk management and Compliance) for Risk analysis via SOAP based Web Services
- Key person in the WebDynpro based end user Web UI
- Develop REST based interface for the administrative UI - both server side and client side
- Work in SCRUM model and Test driven development
- Mobile application projects related to Data Analytics and Role Approval

Tools used: *Java, Eclipse Plug-in, JavaScript, Objective C, HTML5, SAP UI5, SAP WebDynpro, MS SQL-Server, Oracle, SAP HANA*

Jun. 2009 – Aug. 2010 **Crosshairs Embedded AS - Software Engineer**

- Development of debugging and monitoring tool for microcontrollers for monitoring the variables from program running in near real time.

Tools used: *C# (.NET), Axosoft OnTime, Infragistics tools*

Jan. 2009 – Apr. 2009 **NTNU - Student Assistant**

- Student Assistant for the subject "Network Intelligence and Mobility"
- Carry out the SIP based labs

Tools used: *Java, SIP SDK, Open SIP*

Aug. 2006 – Sep. 2007 **D2Hawkeye Services - Software Engineer**

- Development of online check payment system and integration with accounting Software

Tools used: *Visual C++ (MFC, COM), Microsoft Access, Installshield*

Jun. 2005 – Aug. 2006 **Kantipur Engineering College - Lecturer**

- Give lectures on "Theoretical Computer Science"
- Guide students with projects

## **Education**

Aug. 2007 – Jun. 2009 Norwegian University of Science and Technology (NTNU), Norway  
**Master of Science (MS), Security and Mobile Computing**

Aug. 2008 – Jun. 2009 Aalto University, Finland  
**Master of Science (MS), Security and Mobile Computing**

Mar. 2001 – Jul. 2005 Kantipur Engineering College, Nepal  
**Bachelor of Engineering (BE), Computer Science**

## Major Academic Projects

- 2009                    **Secure E-Passport Access Methods**  
*Master's Thesis*  
Description:  
The thesis explores different security and privacy issues concerning electronic passports (e-Passport) and proposes a better protocol for communication between e-Passport and the reading terminal.
- 2005                    **Security and Surveillance System**  
*Bachelor's Project*  
Description:  
The system provides webcam based video surveillance functions and physical security functions through hardware based smoke and motion sensors.  
Tools used: *Visual C ++*

## Awards/Recognitions

- Promotion to Senior Developer, 2014, SAP Norge
- Recognized as "Consistently Exceeding Expectations" employee and awarded stock options

## Courses:

- 2013    Secure programming in Java  
          SAP Labs Norway
- 2013    Agile methodologies and SCRUM  
          SAP Labs Norway

## Publications

- Csorba M.J., Karanjit P., Andresen S.H., "The SIP Pod" a VoIP student lab/playing field, Proceedings of the INGRID 2009 "Instrumenting the Grid" Workshop, 2009.
- Karanjit P., "Protection for Resource Constrained Devices", TKK T-110.5290 Seminar on Network Security, Dec. 2008
- Karanjit P., "SIP Security Mechanisms: Through A Secure Software Engineering Approach", TKK T-110.7100 Applications and Services in Internet, Dec. 2008

## Interests

Photography, Travelling

## Languages

Nepali (Native), English (Fluent), Norwegian (Full working proficiency)

## References

Can be made available upon request.