



# MARIS ROJA SUPENA

Kitchener, Ontario 

(647) 532 - 0949 

maris.supena@gmail.com 

linkedin.com/in/marisalanosupena 

maris.supena.org 



## RESEARCH INTERESTS

- Artificial intelligence
- Bioinformatics
- Disaster management
- Convergence science
- Computational biology
- Human-computer interaction



## EDUCATION

### **Bachelor of Science in Computer Engineering | Ateneo de Manila University**

2002 - 2007

Thesis: Real-time Acoustic Monitoring of Tropical Rain

School of Science and Engineering Awards for Outstanding Student Research (2007)

Dean's List (2007)

Scholarships: Ateneo de Manila University Scholarship, Antonio Ferrer Stipend Fund

### **Bachelor of Science in Physics | Ateneo de Manila University**

2002 – 2006

Thesis: Design and Fabrication of a High-Vacuum DC Sputtering System

Founding Member: League of Ateneo Physicists

Scholarships: Ateneo de Manila University Scholarship

### **Additional Training**

*Machine Learning*. Stanford University - Coursera (ongoing)

*AI for Everyone*. DeepLearning.ai (2021)

*Foundations of Data Science*. University of Toronto School for Continuing Studies (2020)

*Occupation-specific Language Training*. Conestoga College (2019)

*Learning How to Learn*. McMaster University & University of California San Diego – Coursera (2019)

*Introduction to Game Development*. University of the Philippines Information Technology

Development Center (2012)



## PUBLICATIONS

M. Alano, V. Casareno, R. de la Rama, G. Tangonan, N. Libatique and T. Calasanz, "Real-time Acoustic Monitoring of Tropical Rain", 27th Philippine-American Academy of Science and Engineering (PAASE), Manila, Feb. 15, 2007. (Award: Best Poster Paper)

G. Tangonan, N. Libatique, T. Calasanz, C. Oppus, M. Alano, V. Casareno, R. De La Rama, D. Luna, J. Raymundo, T. Tan, J. Zamora, L. Cinco, A. Frias, and N. Palabrica, "Real-time Rain Rate Monitoring and the Simulation of Microwave Propagation Loss in Tropical Rain" Paper 154, 7th National

Electrical Electronics Computer and Communications Engineering Conference, EECCE Con 2007, Univ. of the Philippines, Diliman, Quezon City, Nov. 30, 2006. (Conference Paper)



## EXPERIENCE

### Software Developer | Oracle + NetSuite

2013 – CURRENT

Developed *Warehouse Management System* features for the NetSuite web app using Java, SQL, HTML and JavaScript.

*Tax SuiteApps*. Supported tax forms, tax audit files and withholding tax computations to comply with various tax and statistical bodies.

*Feature Lead*. Led design discussions, reviews and supervised the deliverables of five software engineers. Coordinated with an international development team to meet tight schedules.

*Mentor*. Developed a training plan for a junior member. Performed monthly tutorials on requirements analysis, high-level design, design reviews and leading team discussions.

Co-developed a proof-of-concept Perl converter that can transform SuiteScript 1.0 scripts to version 2.0.

### Software Engineer | i-Bridge

2010 – 2013

*Prototype e-Paper Tablet*. Used Wireshark to determine a prototype tablet's network and file format specifications. Added a *Print to Tablet* feature to an existing Konica-Minolta printer driver. Gave updates to Konica-Minolta executives about the project status by performing daily demonstrations. Helped acquire new company projects by finishing the prototype project in less than two weeks.

*Cloud-Platform Comparison Study*. Performed a cost and performance analysis on which cloud platform is best-suited for Konica-Minolta's on-premise web application. Implemented the key features of this web app using Amazon Web Services and Windows Azure cloud platforms using C# and .NET. Created equivalent database designs for DynamoDB and SimpleDB based on the existing MS SQL schema. Proposed and developed a Perl tool for the efficient migration of database connection classes.

*iOS and Android Mobile Developer*. Implemented the *Add Printer* feature for both iOS and Android versions of Konica-Minolta's mobile apps using Objective-C and Java.

*Linux Mobile Developer*. Implemented new features for a note-taking application for a prototype Linux tablet using Qt and C++.

### Software Engineer | Canon

2007 – 2010

*Video Recording Software*. Implemented new features for Canon network video cameras using C# and the .NET framework. This Windows application allowed users to take full control of their cameras and schedule video recordings. It was also capable of starting a video recording when motion or other events are detected.

*SoftBus Lifecycle Manager*. Created a reusable module for monitoring application states for the printer team using C. Individual processes or threads can register and update their current states, and it allowed other services to query the registered states. It supported Windows, Linux, and a Canon-proprietary OS.

*Text-based Testing Framework.* Implemented a text-based testing framework for the QA team using C which could use the SoftBus library in different threads, processes, and nodes simultaneously. It supported Windows, Linux, and a Canon-proprietary OS.

*Project Officer-in-charge.* Substitute team leader of eight software engineers and four quality assurance engineers. Maintained project schedule and coordinated tasks between the client liaison and the development team.



## PERSONAL PROJECTS

*Lotto Analyzer.* Created a web parser using Python and Selenium to acquire historical ball-drawn and computer-generated lottery data into csv files. Heat maps and box plots were then generated and analyzed to compare the data between ball-drawn and computer-generated lottery data.

*Caleruega Racer.* Developed a simple car racing game using Unity and C#.

*Wipeout.* Developed a Wipeout TV show inspired game using Unity and C#.



## SKILLS

### Data Science

Python

### Database

Oracle SQL, MS SQL,  
DynamoDB, SimpleDB, Azure Tables

### Scripting

Perl, Unix, Windows Script

### Embedded Systems

C

### Printer Driver

C++, SNMP

### Web

Java, JavaScript, HTML, CSS

### Mobile

iOS (Objective-C), Android (Java)

### Windows Application

C#, .NET Framework, C++, InstallShield

### Game

Unity, C#

### Modeling

UML