

# CAPILI, JONA JAYSON

## OBJECTIVE

To enjoy a passionate life in creativity, learning, and critical problem-solving through programming, software engineering, team collaboration and competent enterprise production even for non-profit gain.

## Email

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## Linked In

ph.linkedin.com/in/jasonsparc

## StackOverflow Careers

careers.stackoverflow.com/jasonsparc

## PORTFOLIO

### Kana Helper (Android App)

**Developed a full-fledged app in 1 month!**

A learning tool packed with engaging tests for practicing and learning Japanese Kana:

<https://play.google.com/store/apps/details?id=com.circlet.kanahelper>

Source code, available on Bitbucket:

[https://bitbucket.org/jason\\_sparc/kana-helper](https://bitbucket.org/jason_sparc/kana-helper)

### Flap Maze (Android Game)

**Developed an app with over 1,000+ downloads!**

An innovative, first of its kind, non-linear maze implementation of a Flappy Bird clone, and a new velocity-vs-damage "health bar" system:

<https://play.google.com/store/apps/details?id=com.circlet.flapmaze>

### TnS PATRICIA-Trie Map

**Open source contribution**

A flexible patricia trie implementation for Java offering rich features with prefix-related query operations. It has relative performance in comparison with TreeMap, has as good memory footprint, and can be used as a complete replacement.

<https://github.com/jason-sparc/TnS-Patricia-Trie/>

### Interactive Website

An interactive form of my resume, (with dynamic 3D layout and animated objects) built using pure CSS3 and HTML (no JavaScript nor Flash involved) with JSP on the server-side, is available on my website:

<http://jsparc-circlet.rhcloud.com>

### Document built deliberately using HTML

**No Pain, No Art!**

This document that you are currently viewing is neatly built using HTML and has been carefully crafted to achieve its aesthetic design.

Source code, available on GitHub: (Compilable as PDF via Chrome's Print Menu)

<https://github.com/jason-sparc/jason-sparc.github.io>

## SKILLS

### SOFTWARE DEVELOPMENT

Android Development API 8 – 22

Game Development AndEngine LibGDX

Web Development

HTML5 CSS3 JavaScript jQuery

Java SE EE Swing JSP

Microsoft .NET Framework ASP.NET

MS SQL Server 2008 R2 2012 2014

Git VCS

### PROGRAMMING

Java 6 7 8

.NET C# VB.NET

Low-level C C++

Database SQLite ISO SQL MS T-SQL

Lua 5.1 5.2 5.3 LuaJIT 2.0

Assembly Language Intel x86 x64

DynASM from LuaJIT

XML XSLT XML Schema

### COMMAND LINE

Android Linux Shell BusyBox SU

Windows Command Prompt

## EDUCATION

2012–2014 (Graduate)

Professional Diploma in [Information Technology](#)  
**Phoenix-One: The Knowledge Institute (PX1)**

Notable projects:

- Lead a team of 5, creating an automated inquiry system for PX1 with an HTML5 front-end and Java EE controller. Used SQL Server with stored procedures on the back-end.

Remarks: Studied as a scholar with a special 50% scholarship grant all throughout.

2011 (Undergrad)

Bachelors of Science in [Information Technology](#)  
**AMA Computer College (AMACC) Makati**

2007–2011 (Graduate)

High School  
**Pasay City West High School (PCWHS)**

2009–2010 (Graduate)

Vocational, [Computer Literacy Program](#)  
**AMA Computer Learning Center (ACLC) Taft Ave. Pasay**

Remarks: Studied at ACLC while still completing high school in PCWHS.

2007–2008 (Undergrad)

High School, [Engineering and Science Educational Program \(ESEP\)](#)  
**PCWHS–Department of Science and Technology (PCWHS-DOST)**

Notable program of studies:

- Comp-Sci Fundamentals
  - Algorithms and Data Structures
  - Data computation in memory components
- Introduction to Programming
  - Basic VB.Net programming
  - MS-DOS Scripting

Remarks: Advanced curriculum as a merged educational program by PCWHS.

## SKILLS (Continued)

### SYSTEMATIC PLANNING

[Systems Design](#) [SSAD](#) [OOAD](#)

[Database Design](#) [RDBMS](#) [ERD](#)

[UML 2.0 \(Intermediate\)](#)

[Project Management \(Intermediate\)](#)

### ALGORITHM DESIGN

[Bit Manipulation](#)

[2's Complement](#) [IEEE Floating-Point](#)

[Big O Analysis \(Intermediate\)](#)

Valuable understanding in Computer Science as a helping tool for algorithm design and optimized programing logic constructs.

### AUXILIARY EXPERTISE

[PC Maintenance](#)

[Setup](#) [Troubleshooting](#) [Installation](#)

[Windows Administration](#)

[Registry](#) [Group Policy](#) [Disk Partitioning](#)

[Microsoft Office](#) [2003](#) [2007](#) [2013](#)

[Adobe Photoshop](#) [CS2–CS5](#)

[Adobe Flash](#) [CS4](#) [CS5](#)

## NOTES AND REFERENCES

**Note:** Credibility for the cited publications can be confirmed as each provided link associates a contact address (e.g. GitHub user profile, Play Store app description, etc.)

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