

Abbreviated CV for Jan Pool

A full CV is available at <http://www.pshymorphic.com/JanPool-CV.pdf>

Last updated on 27 June 2016. Latest version at <http://www.pshymorphic.com/JanPool-CV-Abbreviated.pdf>

Particulars

Date of Birth: 31 October 1976
Languages: Afrikaans, English (Fluent)
French (Beginner)
Gender: Male
Nationality: Republic of South Africa
Passport: Republic of South Africa
Marital Status: Divorced
Drivers License: Code B
Highest Qualification: M.Sc.Eng (Electronic), University of Stellenbosch, 2001
Mobile Number: +27 (0) 82 451 8025
Email Address: jpool@pshymorphic.com
Home Town: Stellenbosch, South Africa

Summary

I'm an electronic and software engineer with an affinity for innovation and entrepreneurship.

I have over 15 years of commercial product and system development experience in the mobile, human-computer interaction (HCI), optimisation, data visualisation, machine learning, crypto-currency, location based services, electronic design automation (EDA), signal processing, machine vision, process control and telecommunications industries.

I have fulfilled numerous leadership positions and work well within teams and on my own.

Since 2006 I have focused mostly on creating and growing technology companies, software product management (with a user and market driven perspective), lean and agile project management, user experience and software design, architecture, development and testing.

I enjoy performing creative tasks, such as building new things and photography. I'm a keen and fast learner and like tackling difficult problems where novel solutions are sought. I'm an avid reader. Typical subjects include startup methodologies, economics, software processes and management, innovation, product development, usability, visualisation, psychology, music, design, robotics, usability, fantasy, science fiction, history and all things science and technology.

I'm passionate about product development and working with energetic organisations that are lean, agile and focused on continuous feedback, learning and improvement.

I value honesty, integrity, dependability, professionalism, adaptability, capability, analytical thinking, creativity, learning and progress.

Experience

Oct. 2011 – Current, Actualiser (Pty) Ltd, Stellenbosch, South Africa

Owner - Independent Software & Electronic Engineer

I offer services in the following domains:

- Product development
- Rapid product prototyping
- Product management
- Project management

- Software specification, architecture, development and testing. I've worked with a variety of languages and on many platforms, but currently focus on:
 - iPhone & iPad (iOS) application development;
 - Android application development;
 - Web application development; and
 - Java Client & Server development
- Data analysis and visualisation
- Technology research
- Technical risk mitigation
- Technical reviews and due diligences
- Agile & Lean software processes implementation and improvement
- Lean startup implementation
- Innovation management
- Training and mentoring
- Technical writing
- Technical patent drafting
- General technical problem solving

Primary clients/projects:

- RealityGate (Pty) Ltd - <http://realitygate.com/> (Since October 2011)
- Gust Pay (Pty) Ltd - <http://gustpay.com/> (Since April 2012)
- HealthQ/LifeQ - <http://www.healthq.co/>/<http://lifeq.com/> (Since June 2015)

For a longer list of previous projects see <http://actualiser.co.za/projects/>.

Aug. 2006 – October 2015, Cape Town Software Process Improvement, Cape Town, South Africa

Committee Member and Chair

<http://www.spin.org.za/>

The Cape Town Software Process Improvement Network (SPIN) gathers monthly to share their experiences in initiating and sustaining software process improvement programs. The SPIN concept was initiated by the Carnegie Mellon University's Software Engineering Institute (SEI), but each chapter operates independently.

My functions include operational management, procuring speakers, attracting sponsors, organising monthly meetings, as well as building and maintaining the website.

We have held a total of 115 monthly events.

Feb. 2007 – Sep. 2011, NioCAD (Pty) Ltd, Stellenbosch, South Africa

Program Manager & Chief Technology Officer

<http://www.niocad.co.za/>

NioCAD is the creator of NioPulse, and Electronic Design Automation (EDA) suite for superconductive integrated circuit design.

I joined in 2007, at the inception of the project, as program manager at the university of Stellenbosch. In 2009 we created NioCAD (Pty) Ltd to continue product development and to commercialise NioPulse internationally.

My functions included operational and strategic management, product management, project management, improving development processes, marketing, client liaison, software specification, architecture, development and testing, recruitment, as well as maintaining the IT systems and infrastructure.

Jan. 2001 - Jan. 2007, Stone Three Signal Processing (Pty) Ltd, Somerset West, South Africa

Project Engineer and Engineering Project Manager

<http://www.stonethree.com/>

Stone Three is a specialised engineering and product development company. The company focuses on projects and products that require specialised signal processing, pattern recognition and software development skills.

I was the team leader for the development of numerous commercial products, frameworks, R&D prototypes and feasibility studies.

My functions included operational management, product management, project management, client liaison, mentoring, recruitment, business analysis, software specification, architecture, development and testing.

Primary Tools and Technologies

- *Software:* Objective-C, Swift, Java, C++, C, Python, Matlab, Assembler, SWING, iOS Platform, Android Platform, XUnit, Squish, MySQL, Git, SVN, Mercurial, Javascript, HTML, CSS, Wordpress, Eclipse, XCode, Android Studio (IntelliJ), Visual Studio, Gradle, Make, Ant, Install4J, CruiseControl, PivotalTracker, Asana, Trello, XPlanner, MantisBT, ZenDesk, UML, MindNode, FreeMind, Bash, GIMP, OmniGraffle, Aperture, Intensify, Latex, Mac OS X, Windows, Linux, MS Office and iWork.
- *Software processes:* Scrum, XP, Kanban and various custom developed processes.
- *Technologies:* Human-computer interaction, data visualisation, signal and image processing, machine vision, pattern recognition, graphic editing, cryptography, cryptocurrencies, payments, location services, distributed systems, artificial intelligence, superconductive electronics and software protection and licensing.