JAMES T SNELL
PROFESSIONAL ENGINEER

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PERSONALITY

- Self-starter, adaptive and driven

- Comfortable architecting and leading development.

- Very willing to follow excellent leaders

- Entrepreneurial mentality

- Inquisitive & life-long learner

TOP TECH COMPETENCIES
Java, BASH, Linux, JavaScript, HTML/CSS, Virtualization (AWS/VMware), svn, git, gitlab, DevOps, Apache2, nginx, Agile method, DRY principle
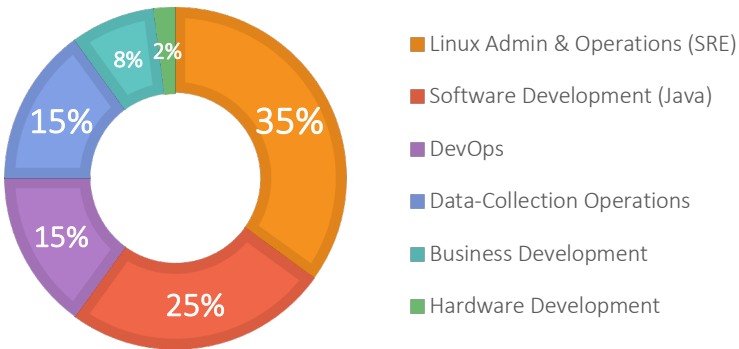
OTHER TECH COMPETENCIES
Ansible, Python, C/C++, Swift, Objective-C, PHP, jQuery, MySQL, Postgres, Geoserver, maven, ant, continuous integration, CAD (Fusion 360), VHDL, FPGAs, PCB layout

OBJECTIVE & OVERVIEW

I thrive at designing, building and supporting systems, especially upon Unix type platforms. I've previously focused on mid-scale web applications and data-collection systems. I seek to collaboratively create, optimize and scale high-impact systems with clever people.

The current time-distribution of my multiple roles is illustrated below.

- Linux Admin & Operations (SRE) — 35%
- Software Development (Java) — 25%
- DevOps — 15%
- Data-Collection Operations — 15%
- Business Development — 8%
- Hardware Development — 2%

RECENT EXPERIENCE

LIDAR SERVICES INTERNATIONAL (LSI) & GASRECON (GRI)
SEPTEMBER 2011 TO PRESENT, 32HRS/WK

I juggle many roles with LSI/GRI. Below gives a timeline, illustrating the evolution of my involvement with both companies.

Year	Activities
2018	- Expanded role to include some business development activities
2017	- Rolled-out Ansible, retired custom BASH orchestration - Next-gen aerial photography precision-logging prototyping - Created automated back-end-fault reporting to Slack
2016	- Developed data pipe automation, reduced overhead 60% - Devised auto unit test exec and report bundling for LSI - Supported aerial and ground LSI/GRI data collection
2015	- Coordinated GRI's rapid prototyping, continued from 2014 - Owned cloud roll-out to EC2. Handled all 20 Linux servers - Java montages (nights/weekends) to bootstrap GRI Cloud
2014	- HW & SW co-integration of new LSI LiDAR scanner - Commenced rapid prototyping of new GRI sensor platform - Organized all DevOps for LSI/GRI Software Team, 3 devs - Owned feedback-loop with GRI field ops, steered R&D
2013	- LSI spawned GRI (pipe mapping and CH_4 leak detection) - Major GRI systems architectural & road-mapping input - Flew field operations support for nearly all LSI projects
2012	- Joined LSI SW team (2 people). Began Java development - Dev efforts focused at enhancing aerial surveying system - Continued extensive LSI field operations role
2011	- Joined LSI in system's support role (hardware focused) - Installed, flew, repaired manned aerial surveying systems

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RECENT PROJECTS

APP STORE
https://dawning.ca/apps

I've released a few glorified *hello-world* apps to the App Store. I've especially enjoyed watchOS and macOS dev. I'm planning a medical assistive app next.

PERSONAL LAB

I maintain a home environment of Linux and BSD servers. I prototype with them and frequently roll-out my findings beyond my lab. I'm a major lover & very seasoned user of all-things Unix.

3D PRINTERS
https://dawning.ca/df

https://dawning.ca/cc155

I was an early adopter of 3D printers. I've built two, one a heavily altered kit, the other from scratch. My printers have various excellent customizations.

MRI/CT 3D MODELLING
https://dawning.ca/skulls

I've processed & printed complex models derived from actual raw MRI data of my nephew's skull. I recently gained access to the Smithsonian's CT scan database for future such projects.

MORE
https://jamessnell.com

http://linkedin.com/in/jamestsnell

https://github.com/docdawning

https://dawning.ca/hackaday

COLUMBIA COLLEGE
APRIL 2009 TO PRESENT, CONTRACTED-BASIS

I've been involved with Columbia since around 1998. My first job was servicing hardware and providing help desk support. In 2009, I founded their Security Services training eLearning platform using Moodle, with AWS-hosted LAMP services. Paypal-driven self-enrolled students have attended our online programs in Security Services ever since.

With Columbia's on-prem ESX infrastructure, I coordinate all Linux-based services, ever since I first established them. This includes an in-house AD-integrated Moodle deployment (separate to the above mentioned) with over 2000 active student & staff accounts.

I have created and deployed various generations of Columbia's public website (upon Wordpress, on self-hosted Linux servers). This includes establishment and coaching of SEO and Social Media advertising campaigns. We recently have outsourced this to an external firm, though I continue to coach the internal and external team members.

Most recently, I've provided key input and steering towards a major re-org of Columbia's internal IT operations.

FORMAL EDUCATION & CREDENTIALS

PROFESSIONAL ENGINEER DESIGNATION (P.ENG)
LICENSED BY ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF ALBERTA (APEGA), 2015

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
INTERNSHIP PROGRAM,
UNIVERSITY OF CALGARY, 2010

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
EMBEDDED SYSTEMS CONCENTRATION,
UNIVERSITY OF CALGARY, 2010

INTERESTS

I often pursue personal projects aimed to help me gain new skills & exercise my creativity. My projects typically focus upon software, Electrical or Mechanical Engineering. Many projects positively boost my professional work. I've listed some key projects to the left.

I love dogs, cats, espresso and guitars.