

	Timothy M. Nibert	
	Skilled and passionate software developer seeking new challenges and growth	
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KEY STRENGTHS

- Excellent communicator
- Proactive
- Seasoned Linux Engineer

TECHNICAL SKILLS

Programming

- Python, C/C++, C#, Java, R, Javascript, SQL, Bash
- Test driven development with CppUnit, Pytest, and PyUnit
- Distributed Systems and Web - Django, Flask, Web2py, Requests, Sockets
- UI - HTML, CSS, AngularJS, JQuery, Swing
- Data Science - Pandas, Matplotlib, Jupyter
- Multimedia - SDL, Allegro, Godot, Unity3D, FFMPEG, OpenCV
- Dev Ops - Gitlab-ci, Travis-ci, Nuitka, Jenkins, Gerrit, JIRA

Linux and Infrastructure

- Virtualization and Containers - VMware ESXi, Xen, Docker
- Server - NGINX, Apache, UWSGI, Bahamut IRCd, Samba
- Database - PostgreSQL, MySQL, SQLite, SQLAlchemy
- Monitoring - Monitorix, Collectd, Graphite, Munin
- Kernel Programming

Miscellaneous

- ISO-13485/IEC-62304 Medical Device Process and Software
- QA Test Planning and Execution
- Advanced TCP/IP Networking
- Security Assessment and Malware Analysis
- ITIL Processes

PROFESSIONAL HISTORY

Genea Biomedx
Software Engineer

Apr 2018 - Current
Melbourne, VIC

Background:

Genea Biomedx develops biomedical devices for in vitro fertilization (IVF) laboratories. Products include embryo incubators, automated vitrification systems, and EMR integration.

Key Accomplishments:

- Maintained IVF incubator and embryo assessment software
- Conceived and developed a big data management solution allowing embryology researchers to retain and analyze clinical data en masse
- Debugged heavily multi threaded distributed clients interacting with databases and APIs in a Model View Controller architecture
- Created and managed JIRA dashboard for field reported issues across product range, coordinated with team to resolve within CAPA process, communicated with external stakeholders
- Delivered hot fixes and service utilities via ISO 13485 and ISO 14971 biomedical quality processes, managed authorship and execution of QA test plans
- Provided technical advisory to key decision makers
- Automated QA document generation

Planet Innovation
Software Engineer Tier 3 Support

Oct 2016 - Apr 2018
Melbourne, VIC

Background:

Planet Innovation develops biomedical devices with an edge toward IoT. The project I was involved with is a time lapse imaging in vitro fertilization incubator and supporting web application called Geri and Geri Connect.

Key Accomplishments:

- Developed a hardware monitoring tool for medical devices
- Identified and resolved numerous software bugs within CAPA process
- Performed code reviews throughout Agile development cycle
- Worked with others to establish a world wide technical support infrastructure
- Triaged issues and acted as the development team's gateway for field reported bugs
- Installed and administered a reliability testing lab
- Authored comprehensive technical documentation
- Implemented and configured JIRA service desk

Iron Lotus Studios
Software Engineer

Feb 2016 - Current
Melbourne, VIC

Background:

Iron Lotus Studios is a self founded software development company.

Key Accomplishments:

- Developed and maintained PicPicPanda, an online photo sharing platform
- Built Kill The Aliens, an arcade style space shooter game
- Developed websites for events using HTML, CSS, Python, and PostgreSQL
- Deployed and maintained Linux VPS infrastructure utilizing Apache, NGINX, WSGI, and PostgreSQL
- Provided on site support for small business networks

Abacus
Technician

May 2016 - Oct 2016
Melbourne, VIC

Background:

Abacus Rent IT is a division of Abacus Calculators for computer and technology equipment hire. They rent out a variety of equipment including computers, audio/visual, and all in one copiers.

Key Accomplishments:

- Managed logistics and warehousing of IT and AV equipment
- Implemented IT infrastructure for conferences and large events
- Repaired computers and commercial grade copier printers

Alchemy Events
Audio/Visual Technician

Oct 2015 - Feb 2016
San Francisco, CA, USA

Background:

Alchemy Events provides sound and lighting to large social and corporate events. We created beautiful ambiance and threw amazing techno parties.

Key Accomplishments:

- Provided live audio streaming services
- Set up and struck music events
- Developed working knowledge of acoustics, audio technology, and lighting

Tri Valley Computer Guru

Head Technician

Oct 2008 - Feb 2016

Livermore, CA, USA

Background:

Tri Valley Computer Guru was a company that I owned and operated which handled IT needs for home and business clients in the San Francisco Bay Area.

Key Accomplishments:

- Built, marketed, and operated an IT service business from the ground up
- Functioned as IT department for several small businesses on an ongoing basis
- Brought peace of mind to numerous home computer users
- Installed a Hadoop cluster
- Provided on call service to ISP server facilities
- Developed an IRC bot called Abunai Bot to translate languages in real time

Bay Area Metal Scene

Software Engineer

Mar 2008 - Sep 2008

Pleasanton, CA, USA

Background:

Bay Area Metal Scene was a heavy metal music label sharing local San Francisco bay area bands with the wider world.

Key Accomplishments:

- Developed company website using HTML, CSS, PHP, and MySQL
- Deployed in house OpenBSD/Apache server infrastructure

PROJECTS

Geri/Geri Connect & Assess

<https://geneabiomedx.com/Geri>

Geri and Geri Connect are a distributed system designed to optimize in vitro fertilization patient outcomes. Geri is an embedded IVF incubator that creates time lapse video of embryo development. Geri Connect synchronizes this data through a heterogeneous distributed database and allows for manual or automated embryo viability assessment. It integrates seamlessly with a variety of outside medical systems. Technologies used include Embedded Windows, Python, Debian Linux, VMware ESXi, Web2py, Flask, Celery, Uwsgi, AngularJS, NGINX, PostgreSQL, SQLite, Docker, and FFMPEG (MP4).

PicPicPanda

<https://picpicpanda.com>

PicPicPanda is a photo sharing platform developed with Django featuring a website, REST API, console client, and unit test suite. It was created to allow photo storage and sharing with the feel of real world photo albums. It allows fine grained access permissions to albums to facilitate sharing with family and friends. Photos cannot be accessed without authentication by copying hyperlinks.

Panzer Deathmatch 3D

<http://ironlotuscomputer.com.au/panzerdeathmatch3d>

Panzer Deathmatch 3D is an networked multiplayer tank battle game written in C# using the Godot engine.

Kill The Aliens

<http://ironlotuscomputer.com.au/kill-the-aliens>

Kill The Aliens is an arcade style vertical scrolling space shooter game created with Python SDL bindings.

Abunai Bot

<http://ironlotuscomputer.com.au/abunai>

Abunai Bot is a multithreaded Internet Relay Chat bot written in Python. Its purpose is to translate languages on the fly for conversations between foreign language speakers.

VOLUNTEER EXPERIENCE

BinrevNet

Server Administrator

Installed, configured, and maintained a Slackware Linux server with BahamutIRC daemon as part of the Binary Revolution IRC network.

Pycon AU

AV volunteer

Recorded video of talks at Australia's annual Python conference.

CERTIFICATIONS AND EDUCATION

- CompTIA Network+ Certified
- Studied Computer Science at University of the People, online
- Studied Computer Engineering at San Francisco State University, San Francisco, California
- Studied GE, Biology at Chabot College, Hayward, California - transferred
- SoftwareCPR IEC 62304 Medical Device Software Development Trained
- Third Degree Black Belt, Danzan Ryu Jujitsu
- Languages: English, Japanese, Spanish

References available upon request.