Michael Graf | Full Stack Engineer

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A clever person solves a problem. A wise person avoids it.
– Albert Einstein

Education

Florida Southwestern University

Bachelor of Science, 3.4   *2014–2016*

Excelled in mathematics, English, and ethics. Debate and ethics club member.

Experience

Vocational...

Malauzai Software   **Austin, TX**

Software Engineer (Promotion)   *2016–Current*

Engineered interfaces to communicate with banking cores (API's), architected and greatly contributed to the Rails testing suite - greatly improving code quality and customer delight.

Detailed achievements:

- Built over a dozen interfaces to interact with banking cores using Ruby, Ruby on Rails, Postgres, and Redis. This software infrastructure is used by >100,000 customers for more than 400 financial institutions across the United States.
- Greatly contributed to the Rails testing suite, refactored and wrote dozens of test cases and an assertion generator to write rails tests, programatically.
  - Increased interface test coverage by a staggering 15% in 4 months.
  - Wrote tests based on sensitivity / use of interface.
  - Designed a script to notify testing failures in a separate 'Alerts' Slack channel in an effort to avoid email floods.
  - Assisted in the conversion of large customers (>100,000 end users) by building SQL queries and scripts.

Malauzai Software   **Austin, TX**

Junior Software Engineer   *2015–2016*

Built bash and Ruby scripts to monitor customer up-time, network latency, and automate backups of customer data. Engineered a small suite of tools to encrypt, upload, decrypt and download tabular data.

Detailed achievements:

- Built a set of tools using Ruby Gems: Fog, Nokogiri, and Mechanize to encrypt, tar, and upload directories of data to remote environments.
- Using Slackcat, I wrote a tool to notify our DevOps / Engineering teams of git pushes via a Slack channel.
- Completed the implementation of a complete financial services core, used by >20 iOS, Android Web Applications.
- Setup additional relational models, including tables that were used for ETL.
- Assisted in the data modeling and diagramming of our Preproduction and Production databases.
  - Implementation included integration with a large Rails Environment (Essentially a SASS).

Emeritus Senior Living   **Seattle, WA**

Junior Network Engineer (Promotion)   *2014–2015*

Starting in the help desk, I quickly made a move to engineering. I focused on supporting a large WAN, our remote users, as well as configuring and implementing remote network devices.

- Introduced Linux to the workplace allowing me to engineer a custom distribution to allow the elderly to contact their loved ones, free of charge.
- Spearheaded a Windows XP replacement project; Windows XP was replaced at >550 remote locations by end users. Completed the project in less than 6 months (about 5 a day).
- Maintained and monitored over 500 private network appliances across the United States.

Emeritus Senior Living   **Seattle, WA**

Help Desk Specialist   *2012–2014*

Desk jockey and phone support, I gained my patience and thick skin by fielding 1,000's of technical assistance phone calls.

- Streamlined customer support / ticket follow ups by creating an engine to send out reminders of outstanding tickets and help items.
- Using PuTTY and serial, I created a script to automate the wiping of obsolete Cisco ASA routers.
- Organized and greatly contributed to the destruction of HIPAA sensitive data, finding a free data destruction and recycling center in the greater Seattle area.

Miscellaneous...

Dynamic Assisted Living Brokerage   **Cape Coral, FL**

Real Estate Associate   *2010–2012*

Took site pictures, cold called, and gathered marketing data on dozens of senior housing properties. Assisted in the sale of $100,000,000 of assets allowing me to get myself through school.

Languages and Skills

Back-end: Ruby, Python, PHP, bash, Go, sed   **Databases**: Postgres, Redis, SQLite

Front-end: Javascript, jQuery, AJAX   **UX/UI**: SASS, CSS, SVG

Operating Systems: RHEL, CentOS, Fedora, **Misc.**: Asterisk, System service building, Virtual-
Ubuntu, macOS, Windows   ization

Interests

Open Source Telephony: Phones and Linux go hand and hand, or handset and ear... however you want to see it. I play with VOIP, Soft and hard phones in my free time.

Software Security: Check out my blog for write ups, tweaks, and experiments of software and security: https://mgr.af/blog

Fitness: I traveled the Southern United States for 30 days in an intensive workout camp (read: fat camp). I run and lift 4-5 days a week.

Design: I've heard to be an artist or a scientist to be a software engineer. Check out https://mgr.af for my design.

References

Available upon request.