# Michael Wieher 773.386.2733 [michael.wieher@gmail.com](mailto:michael.wieher@gmail.com)

*Senior Software Engineer*, with a focus on **back end development,** on either a traditional **Linux** platform or a **cloud** based environment, using **Python.** Recently engaging in **AI engineering**, specifically carefully guided code generation.

I tend to grow into an **engineering lead** role when working on a project for any length of time, and I often become the main SRE for debugging, troubleshooting, architecture, and design of a given project once I have become comfortable with the codebase. Recently I’ve been digging into AI tools and technologies. I’m comfortable with **Claude**, and tend to lean into a no-code approach using **Augment.** However, this approach requires a meticulous mindset, and deep engineering experience. I do find myself significantly more productive – at a loss of personal knowledge of the code. As to the quality, that is a discussion that is, I feel, not settled.

In terms of team dynamics, I am comfortable with any variety of agile methodology. I prefer Test Driven Development and write code to established industry standards; ie: PEP8, python black. I can work with both Object Oriented Design, as well as Functional Design. I am comfortable mentoring junior engineers on the technical details that build solid, reliable, and reusable code.

*On a personal not*e, I began coding when I was young, around 10 or 12, and still consider programming to be both a hobby and a profession. I believe quality engineering requires dedication and patience, as well as a breadth of experience. I focus on established technologies that have withstood the test of time; such as Linux or Python, and have an academic background in C/C++. I enjoy my mistakes, and consider them an opportunity to grow.

**Work History, Full-Time:**

# Mirora AI, LLC

* *Founder, July 2025 through Current, Sole Proprietor, Off Hours*
* AI Engineering, Integrated LLM development, RAG architecture, Claude, Augment, Chat GPT.
* Python, Next.js, React, Supabase, Vercel, Render, Figma
* Founded an LLM powered, SaaS / consulting company, focusing on AI Engineering and development. Worked extensively with prompt engineering approaches, structured prompts. Releasing a no-code, trainable, guard-railed chat bot SaaS solution for folks who have websites shortly. Built a RAG powered representation of a specific, well documented, Tarot system to explore chunking strategies.

# Wells Fargo

* *Contractor, June 2022 through May 2025, Hybrid, Senior Software Engineer*
* Python, GCP, GCS, Composer/Airflow, PyCharm, Co Pilot
* Developed a migration DAG, which essentially acted as a complex ETL, loading historical data into GCP Big Table. The complexities here were simply the Big Data nature of things, as well as navigating the GCP ecosystem, specifically around the Airflow service account. Worked with PyCharm, GitHub CoPilot.

# Citadel

* *Contractor, April 2022 through June 2022, Remote, Senior Software Engineer*
* Python, Linux, Airflow, Pandas
* Implemented a series of Airflow DAGs which enable various forms of data ingestion. Python work, essentially ETL work controlled through Airflow. A Python engine ingests configuration details, from there determines a specific job – input files, output destination, formats, and so on. Worked to extend this system, build adapters to support ingestion, and more configurations for new clients.

# SteepRock

* *FTE, May 2021 through February 2022, Remote, Senior Software Engineer*
* Python, Linux, Docker, Kubernetes
* Built container based microservices as part of an ongoing effort to modernize a legacy system. This company’s code base is follows an extremely organic, customer-centric, practical approach. Not simply individual branches per customer, very much leveraging the branching strategy to its fullest. This allowed each customer, or rather, customer set, experience a similar – yet individually tailored – product. On the back end this resulted in pretty much one branch per customer, each sharing a fundamental starting point, as well as branches along the way. My role was to extract common functionality into REST-ful micro-services, in an attempt to carve out piece by piece shared functionality until the overall code base became manageable. It was fine work. Eventually, a leadership change led to a decision to cut short this refactoring goal.

# OnTrak

* *Contractor, transitioned to FTE, June 2019 through Feb 2021, Remote, Senior Software Engineer*
* Python, Linux, Mongo
* Designed and implemented a highly scalable, distributed Big Data ETL, using pure Python and MongoDB. This was another great team, and a deeper role, where I assumed more of a Team Lead, Junior Architect, Big Data Engineer role. We started with a prototype built by our Data Science team. This system crunched numbers – on the orders of billions; it did more than just read and write data – it performed complex calculations in real time as it iterated through hundreds of millions of records. If any of those records triggered a variety of conditions, it would signal outward. However, this system took some time to execute – nearly two weeks, when I started working with it. I designed a concurrency approach that took into account the complex calculations – as well as other I/O bottlenecks, specifically file I/O – which led to a significant increase in performance with no loss of functionality. And by increase I meant it finished in 6 hours. So, 2 weeks. Told with absolute assurance no way to speed it up. I spent a month on it. 6 hours. It was a good job. The system integrated into the overall architecture, and my knowledge of its operations as well as the associated jobs that fed data into the system became fundamental to most of our discussions and designs. A leadership change led to a culture change, so I stepped back from this role.

# Rich Context

* *Contractor, March 2018 through September, 2018, Remote, Software Engineer*
* Python, Linux, Amazon Web Services (AWS), Docker, REST, Serverless
* Worked on a variety of small projects, focusing on Docker configuration and AWS Serverless. I was able to help with some critical systems setup, but this team was not the best culture fit.

# Comprendo

* *Contractor, May 2017 through March 2018, Remote, Senior Software Engineer*
* Python, Linux, Google App Engine, REST
* Backend support for applications, built a custom REST-ful framework on top of Google’s App Engine. This team had some significant issues when I came on board. Specifically, they were maintaining a back end system built manually – but that approached REST. For example, there existed an endpoint /workout\_routine\_create and another endpoint /workout\_routine\_delete, both POST. And so on throughout the code base. The company’s business was creating and selling apps. They built repeatedly atop a front / back end architecture. But they didn’t have a fundamental understanding of REST. Their engineering lead resisted any kind of 3rd party packages, preferring to take a hands on approach. So I went ahead and leveraged introspection into the GAE models, alongside a JSON schema, to build for them REST-ful framework. We went from weeks of work to support custom end points… at least two, per object, to support create and delete – to a few hours of work to define an object in JSON and to register it with the server. Done. However, the company did end up going out of business, so I moved along.

# Strongbox Data Solutions

* *Contractor, February 2017 through April 2017, Remote, Developer*
* Python, Linux, MySQL, MongoDB, ZeroMQ
* Worked to build a \*nix like filesystem, with versioning support. This team was unique. I joined and, within a few weeks of joining, it became my responsibility to take account for the project being over half a year behind schedule. While I was happy to help get things sorted, the toxic culture was challenging, so I moved on.

# Starmaker Interactive

* *FTE, August 2015 through November 2016, Remote, Developer*
* Python, Linux, Google App Engine (GAE), REST, horizontal scaling
* Supported a RESTful API, which powered Android / iOS applications. We had solid leadership; the business side and technical side worked well together. Our CTO had built an engine which mapped voice to music, and the app pretty much was built atop that. Our job was to maintain the back end, sets of endpoints to support the iOS / Android apps. Our tickets were well scoped, defined clearly, and usually the code already had working tests.

# Press Ganey

* *Contractor, August 2014 through January 2015, Remote, Developer*
* Python, Linux, Amazon Web Services (AWS), Django
* Supported a distributed survey tool focused on the healthcare industry.

***Off-Hours, Teaching*:** 2013, and 2014, worked remote/part-time/after hours as a Python instructor.

# UIC Library

* *Contractor, May 2014 through July 2014, Developer*

*–* Python, Linux, Django, PostgreSQL, git, TDD/CI, bitbucket

* Project to allow libraries across Chicago to catalog digital collections in a central repository

# Virdocs Publishing

* *FTE, October 2013 through March 2014, On Site, Developer*
* Python, Linux, Django, Ubuntu, PostgreSQL, REST
* Project to allow the ingestion of PDF-based textbooks & translation to digital format

# Safari Books Online

* *Contractor, April 2013 through July 2013, Remote, Developer*
* Python, Linux, Django, PostgreSQL
* Supported the Safari Online web portal.

# Thomson Reuters

* *Contractor, January 2013 through March 2013, On Site, Developer*
* Python, Tornado, REST, MongoDB, Amazon Web Services (AWS)
* Transition the code from vendor owned codebase, to in house.

# GE Healthcare

* *Contractor, August 2012 through January 2013, On Site, Developer*
* Python, Linux, ClearCase
* Support a reporting project against \*nix based chipset technologies.

# IP Ghoster

* *Contractor, June 2012 through August 2012, On Site, Developer*
* Python, Linux, MongoDB, Rabbit MQ, Rackspace
* Project to allow mask their country of origin via public web proxy hops.

# Sears Holding Corporation

* *Contractor, transitioned to FTE, April 2011 through March 2012, On Site, Developer*
* Python, Linux, Django, MySQL, MongoDB, ZeroMQ, RabbitMQ
* Supported an in-house instance of the Graphite visualization system.

*During the Great Recession, I spent a few years working on a Masters in C.S., but left early to return to work at Sears.*

# Mediamark GFK Research Inc

* *FTE, January 2008 through May 2009, On Site, Developer*
* Python, Linux, C/C++
* Built an in-house, HTTP based engine, which processed and queried a proprietary data format.

# Textura LLC

* + *FTE, March 2007 through December 2007, On Site, Developer*
  + Python, Linux, PostgreSQL
  + Support an online contractual system focused on the construction industry.

# OpinionLab

* + *FTE, August 2006 through March 2007, On Site, Developer*
  + Python, Linux, MySQL
  + Code translation from ASP to Python to support a feedback plugin for websites.

*Bachelor's Degree, Mathematics & Computer Science, University of Illinois at Chicago, Chicago, IL Graduated 2006*

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