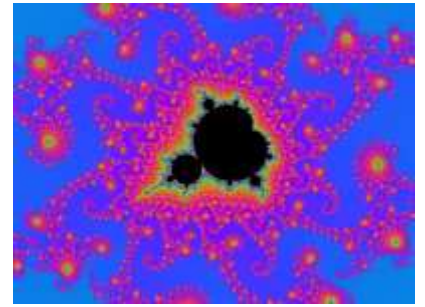


Sam Watkins



Skills

- artificial intelligence, applied to real-world problems
 - enthusiasm, innovation, and careful attention to detail
 - rapid development, troubleshooting and debugging
 - 20+ years of professional programming: Python, C, JavaScript, Perl, Java, C++, Shell
 - Linux / UNIX devops, networking, tools, data science, AWS, GCP
 - full stack web app and database development: Apache, NGINX, PostgreSQL, Supabase
 - math, physics, modular design: "Simplicity, Clarity, Generality!", the UNIX philosophy
 - SDL, OpenGL, 2D and 3D graphics, image and video processing, audio and music synthesis
 - I enjoy teaching, tutoring, mentoring for programming, math, and physics
-

Work History

- 2023: Self employed at **Allemande AI**, offering open-source AI tools, apps, and consulting.
- 2021-2022: Freelance Software Developer with **Toptal**, a growing network of top talent in the world.
- 2021-2022: Software Developer with **ServiceRocket** and **Meta** aka **Facebook**.
- 2021: Software Developer with **Ribbon Home**, helping to make home ownership achievable.
- 2021: Software Developer with **Tekt Industries**, an award-winning IoT electronics company.
- 2020-2021: Online Tutor for math and programming.
- 2010-2019: Analyst Programmer at **Linfox Armaguard**, Australia's leader in currency management.
- 2007: Software Developer at **Schoolsnet**, a service provider for Australian schools.
- 2003-2004: Software Developer at **FastMail**, an innovative email provider.
- 2000-2002: Software Developer at **Schoolsnet**, a service provider for Australian schools.
-

Education

- 2021-2023: Practical Deep Learning for Coders, parts 1 and 2 with fast.ai.
Walk with fastai revisited, with Zachary Mueller
- 1998-1999: Bachelor of Applied Science (Computer Science and Software Engineering) at **Swinburne University**.
- 1996: Bachelor of Music at **Melbourne University**
- 1993-1994: VCE at **Luther College**, Croydon
- 1993: International Mathematical Olympiad, Australian Team Member (reserve)
- 1989-1993: Mathematical Olympiad enrichment programme
- 1989-1992: **Melbourne Grammar School**, South Yarra
- 1982-1988: **Chum Creek Primary School**, Healesville
-

Interests

family, music, reading, Aikido, rock climbing, ice skating, cycling, hiking;
AI, game development, digital music, free software, Japanese language;
programming languages, relational graph programming, flow-based programming;
digital graphics, math, fractals, video games, fine art
