

JACK WIMBISH

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Full-Stack Software Engineer with focus on database-heavy applications, cloud infrastructure, HPC, and life science.
Adopts AI-driven development methods.

EXPERIENCE

Challenger, Gauntlet AI

Jun 2025 – Present

gauntletai.com

- Immersion in AI-first software development with Claude Code, Cursor, and more.
- Built web, mobile, and desktop apps with AI-first development methods.

Bioinformatician, UAB

Sep 2021 – Jul 2025

University of Alabama at Birmingham, Dept. of Microbiology

- Designed and created databases for organizing large multi-omics study across 3 institutions.
- Set up and maintained AWS and OpenStack-based cloud infrastructure to host shared resources.
- Developed automated flow cytometry gating analysis pipeline
- Wrote scripts for data wrangling from various research and medical sources.

Computational Biologist, HudsonAlpha Institute for Biotechnology

Jul 2011 – Mar 2018

The HudsonAlpha Genomic Services Laboratory (now Discovery Life Sciences), a production genomic sequencing core, providing sequencing services for clients around the world.

- Created and maintained a web-based LIMS (Laboratory Information Management System) customized for the needs of a genomics laboratory.
- Developed data pipelines for alignment and variant calling of genomic sequence data.
- Created databases and analysis software for research projects.
- Created backend software and a display interface for decoding hardware logs of sequencer machines and generating custom metrics.

Research Assistant, UAB

Aug 2006 – Sep 2009

University of Alabama at Birmingham, School of Optometry - Vision Science

- Built systems for automated, stimulus-synchronized recording of electroencephalogram data and wrote accompanying analysis software. Developed GUIs for legacy lab code

EDUCATION

University of Alabama at Birmingham, B.S. Computer Science, B.S. Biomedical Engineering Graduated 2011

PUBLICATIONS

- [Cirulli, E. T. et al. Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways](#) *Science* 347(6229), 1436-1441 (2015)
- [Neale, B. M. et al. Patterns and rates of exonic de novo mutations in autism spectrum disorders](#) *Nature* 485(7397), 242-245 (2012)

SKILLS

- Programming: Python, Javascript, R, C, Bash, Java
- Development Tools: Claude Code, Cursor, Linux, Git, PostgreSQL, MySQL, Nginx
- Cloud: AWS, OpenStack, DigitalOcean
- Web development: HTML, CSS, REST, AlpineJS
- Frameworks: Flask, SQLAlchemy, Django, pandas, pytorch, sklearn