# JACK WIMBISH

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Full-Stack Software Engineer with focus on database-heavy applications, HPC, and bioinformatics. 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