

Isaac Gemal

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TECHNICAL SKILLS

- Software: TypeScript/JavaScript, React, Node, Python, SQL, AWS, Docker, Git, Linux, AutoCAD, AutoLISP, VBA

WORK EXPERIENCE

Wikimedia Foundation | Contractor

4/25

- Worked with Wikimedia to develop strategies for Wikipedia's future growth, direction, and community engagement

OpenAI | Contractor

3/25

- Invited to alpha test GPT-4.5, evaluating creativity, code, and 3D spatial capabilities; worked directly with OpenAI's research team to provide feedback on the model

Fractal Tech | Software Engineer

10/24-12/24

- Dedicated 60+ hours weekly to software engineering, with notable achievements including:
- **Anthropic | Contractor** - Participated in Anthropic's Model Safety Bug Bounty Program, identifying and exploiting vulnerabilities in state of the art large language models to further research and safety measures
- **citymeetings.nyc | Contractor** - Used AI to help transcribe, summarize, and analyze NYC Council meetings, analyzing both meeting content and public sentiment to improve government accessibility and transparency
- **mcbench.ai | Team Member** - Created an open-source platform for evaluating AI models' Minecraft building generation capabilities through competitive ranking and human feedback, advancing research in AI benchmarks

Partner Engineering & Science, Inc. | Design Engineer

11/22-3/24

- Managed AutoCAD revisions for numerous projects, including the one of largest residential home development plan in New Jersey (549 units in Jackson, New Jersey)
- Projects included: zoning, layout, grading, drainage/utilities, stormwater calculations, soil erosion/sediment control, landscape/lighting and detail drawings
- Performed daily geotechnical site inspection services for residential construction sites, monitoring soil conditions, retaining wall constructions, and stormwater utility installations

Anheuser-Busch InBev | QA & Logistics Intern

6/20-8/20, 7/19-12/19

- Wrote software to automate microbiological sample tracking of 200+ equipment pieces throughout the brewery
- Developed custom VBA and SQL scripts to gather inventory warehouse data for management
- Found and fixed a nationwide software bug, increasing end of shift reporting accuracy by 4%

DESIGN EXPERIENCE

WikiTok

2/25

- Wikipedia with TikTok scrolling. Built in 2 hours, went viral and reached well over a million people

Stevens Institute of Technology | Project Team Member

5/22

- Secured and managed \$250,000 in grants to revitalize a historically significant fountain
- Conducted site surveys, ran flow test simulations, and created scale models in collaboration with the Lake Hopatcong Historical Museum and Morris County Government

EDUCATION

Stevens Institute of Technology

5/22

Bachelor of Engineering in Civil Engineering

Honors: Edwin A. Stevens Scholarship, Passed Fundamentals of Engineering (FE) Exam