

Isaac Gemal

📍 NYC | ✉ isaacgemal@gmail.com | 🐙 github.com/isaacgemal | 🌐 Aizk.sh

TECHNICAL SKILLS

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

WORK EXPERIENCE

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 Intern

6/20-8/20

- Wrote software to automate the monitoring of microbiological sample tracking of 200+ pieces of equipment throughout the brewery
- Shadowed shift managers, assisting them with daily responsibilities

Anheuser-Busch InBev | Logistics Intern

7/19-12/19

- Wrote custom scripts with VBA and SQL to gather inventory warehouse data for upper management
- Found and fixed a nationwide software bug to increase end of shift reporting accuracy by 4%

DESIGN EXPERIENCE

WikiTok

2/25

- Wikipedia with TikTok scrolling. Built in 3 hours, went viral and reached over half a million people in 36 hours

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

Coursework: Geotechnical Engineering, Water Resources Engineering, Modeling and Simulation, Steel Design, Concrete Design, Engineering Economics, Structural Analysis, Intro to ArcGIS, Fluid Mechanics