Gabo Mishaan

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TECHNICAL SKILLS

Front-End: *HTML, CSS, JavaScript, React, Responsive Design, Bootstrap, HTTP/JSON/AJAX*

Back-End Technologies and Databases: *Node.js, Express.js, RESTful API Design, PostgreSQL, MATLAB, Python*

SPECIAL PROJECTS

- *Face Blur App:* Developed a fully responsive app using React, Node.js, Express.js, and PostgreSQL allowing users to upload a photo and automatically detect and blur human faces by leveraging an AI API (Clarifai).

- *37 Summits:* Created a fully responsive concept app using React with functionality in English and Spanish allowing users to keep track of their progress on the "37 Summits Challenge" to summit all of the 37 volcanoes in Guatemala.

- *Wordle:* Produced a fully responsive app with JavaScript, HTML, and CSS that allows users to play Wordle without a daily limit, choosing a random word from a comprehensive list and accepting user input through an on-screen keyboard.

PROFESSIONAL EXPERIENCE

Langan Engineering and Environmental Services   *2019 – Present*
Senior Staff Engineer

- Oversaw a portfolio of engineering work of >$40MM for a company with >$800MM in annual revenue and project budgets of >$6.7B, while saving >$6M in project budgets yearly by optimizing numerical models utilizing software.

- Led a team of 5 engineers, directing scheduling and task allocation across >25 projects to maintain an average billable utilization rate over 90% and 10% above target, while training >10 PMs and engineers and transitioning >15 projects.

- Created an automated and streamlined process for billing code requests using Power Automate, resulting in a reduction of 66% of manual input and 30% of user error, saving over 4 hours per week in staff time.

- Designed geo-structural components for projects, resulting in 100% compliance to the regulations and industry best practice, while coordinating with key internal and external stakeholders in developing scope, schedule, and execution.

U.S. Department of Energy's Frontier Research Center   *2017 – 2019*
Research Assistant

- Created a MATLAB program for data processing and visualization for experimental results utilizing DIC and AE, reducing processing time from over 2 hours down to minutes for a 7-10x increase in efficiency.

- Conducted research on fracture properties of geo-materials and presented findings at 2 international conferences, collaborating with researchers from 3 institutions to develop mathematical models to reflect field behavior at failure.

EDUCATION, LANGUAGES, & RESIDENCY

Master of Science in Civil Engineering – *University of Illinois Urbana-Champaign (GPA 3.95/4.00)*

Bachelor of Science in Civil Engineering – *Technion – Israel Institute of Technology (GPA 4.00/4.00)*

English (Fluent), Spanish (Fluent)

Permanent US Resident