

Benjamin Goodheart

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Software Engineer with 2+ years of full stack development experience in Javascript, Python, Java, and SQL. Experienced systems analyst with M.S. in Computer Science.

Languages, Frameworks and Other Technologies

- **Languages:** Javascript ES6/Vanilla, Python, Java, CSS, HTML5, bash, SQL, Typescript, C++, R
- **Frameworks:** React, Vue 3, Bootstrap-Vue, Nuxt.js, Django, Node.js, Tailwind CSS, Selenium, Pinia, Puppeteer, Jest, React Testing Library, Fastapi, pandas, numPy, Matplotlib, JavaRX, Hibernate, EJB, Agile
- **Technologies:** REST, GraphQL, AWS (EC2, Route53, IAM Identity Center, Cloudfront, Amplify, API Gateway, Kinesis Video Streams), Git, Jenkins, Maven, Wildfly, Docker, Kubernetes, WebRTC, Linux (Ubuntu, Kali, and Linux Mint distributions), Github Actions

Work Experience

Prompt Engineer - Tier 3

Outlier, San Francisco, CA

Sept 2024 - Present

- Construct prompts based on provided criteria to train AI models focusing specifically on improving understanding, parsing, and output of programming based tasks. Prompt engineering tasks included:
 - Java implemented graphs, aimed at improving the models understanding of graph theory.
 - Assume the role as student and ask for help with a programming assignment by generating a block of code. The task continues over the course of multiple "turns" between the model and user a specific focus on quality of the code generation.
- Generalized image dependent prompt engineering and output refinement
 - Using an image and a corresponding prompt, I have compared, analyzed, and ranked over forty pieces of model output and rewrote at least twenty of those responses to increase the helpfulness of the response.

Software Engineer / Analyst

Civicom, Port Chester, NY

Jan 2022 - Jul 2024

- Developed the Real Time Communications product 'PageAlive', a video chat widget that businesses easily add to their websites, providing consumers with instant customer support when shopping online.
 - Wrote the technical specifications for the Minimal Viable Product (MVP) and each subsequent version within an Agile framework, working closely with the business SME.
 - Coordinated the delivery of 23 releases and responsible for AWS backup and system maintenance across 2 organizational accounts with 15 EC2 instances over 17 regions.
 - Managed a team of 3 developers and 1 QA lead.
 - Collaborated with QA lead to write unit tests for individual Vue 3 components.
- Designed and coded API endpoints in Java along with the corresponding back-end services for multiple products.
- Modeled and coded database relationships and necessary queries.
- Designed and coded an end-to-end automated testing solution for ScribePT, an AI driven documentation assistant for physical therapists, in Vanilla and ES6 Javascript extending the Puppeteer and Jest frameworks.
 - Wrote unit test templates for developers to test code and facilitate Test Driven Development.

Benjamin Goodheart (continued)

Work Experience (continued)

- Implemented user interface enhancements using React for v9 of ScribePT.

Software Developer

humanId, Boston, MA

May 2021 - Aug 2021

- Managed feature research and wrote technical specifications for humanId, a Single Sign-On privacy-focused solution as an alternative to federated logins using Google, Facebook or Apple.
- Contributed to the research and implementation of a Dockerized version of their Developer Console, built using Python and Django.
- Researched and specified solutions to a 'CAPTCHA-less' login that validated human website users without the hassle and inaccessibility of CAPTCHAs.

Graduate Assistant

Graduate School of Arts and Sciences

Fordham University
New York, NY

Sept 2020 - May 2022

- Conducted fuzzing experiments looking for new vulnerabilities in established benchmark programs that compared AFLGo and the optimized version of AFLGo to determine how bad actors may exploit those vulnerabilities.

Director Of Media

Envirosell, New York, NY

Nov 2013 - Jul 2020

- Led the media department of a boutique market research firm, handling a variety of video and audio functions

Education

- **M.S., Computer Science**, Fordham University, NY, New York **2020 - 2022**
- **B.A., Film, Video & Interactive Media**, Quinnipiac University, Hamden CT **2009 - 2013**

Personal Projects

- **Portfolio Website**
 - Personal showcase website implemented as a Single Page Application using Nuxt, Tailwind CSS, Vue 3, and AWS Amplify. Fully responsive with light/dark mode.
- **PDF Extractor**
 - Python command line utility tool that ingests a .pdf file, extracts the datatable in the file, and saves it to the desired directory.
- **Are The Mets Still In First?**
 - Web application written in Vue 3 that fetched the current standings, and updated the content daily to display whether the New York Mets were in first place in their division.