

C. James Ekhaton

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Portfolio: <https://jamesekhator.com/> ~ LinkedIn: <https://www.linkedin.com/in/jamesekhator/>

GitHub: <https://github.com/jekhator/>

SUMMARY

I first started learning to program in a coffee shop while in college, initially grappling with Java. Now, I'm working at Quality Health Care Group Inc. and on several different projects concurrently. I've developed skills working with different libraries and frameworks over the years. My go-to tech stack involves Next.js (React, Typescript, and Tailwind), Python (containerized microservices deployed on Google Cloud), and Prisma to communicate with my database (ORM); but can work with the best stack for the job. I enjoy using programs to solve complex problems, streamline processes, and contribute to company software functionality. I've held essential roles in data analytics think tanks, philanthropic efforts, and fraternity leadership as well. My general interests span from movies and sports to coding and learning with an acute interest in merging software engineering with business strategy.

Visit My Portfolio: <https://jamesekhator.com/>

EXPERIENCE

Software Engineer @ Quality Health Care Group Inc. (Health)

May 2018 - Present

- <http://qualityhealthcare.org/>
- **Production Environment:** Node.js (Next.js) → Google Cloud Platform (Serverless), Linux, Git (version control)
- **Programming Languages used:** React, Typescript, Tailwind, Python, SQL
- Built in-house application using serverless architecture, focusing on cost-efficiency for low-scale operations; managed storage, batching, and service utilization that later became essential to company as an alternative I proposed
- Led Full-Stack division of the tech department and developed frontend, backend, and sharded databases of responsive web application that led to an increase in client communication which translated to better client retention

Software Engineer, Founder @ Xoobug (Digital Media)

May 2017 - Present

- <https://xoobug.com/> ****[Deployed On Google Cloud Platform]****
- **Production Environment:** Local Environment (Standard IDE) → Google Cloud Platform (App Engine)
- **Runtime Languages used:** HTML, CSS, Javascript, SQL
- Used cloud based microservices to build out a simple back end of the website and used standard libraries and styling develop the front end aesthetic and functionality that contributed to average engagement/ clicks
- Handled the UI/UX design implementation and debugging as well as analytical insights that helped content perform better with community of over 100,000 members

Project Collaborator @ Nittany Data Labs (Tech Hub)

September 2016 - 2017

- <http://www.nittanydatalabs.org/>
- Worked directly with notable companies in the technology space to help enhance their system architecture and collaborated with my team on projects that were consistent with industry leading tech
- Partook in regular meetings surround new advancements surrounding frameworks, AI, ML, Data, software engineering and more

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PROJECTS

Vidbear (Video Streaming Platform)

Present

- <https://www.vid-bear.com/>
- **Production Environment:** SvelteKit with Server-Side Rendering (SSR) → Vercel, Git (CI/CD)
- **Programming Languages used:** Svelte (with TypeScript), Tailwind CSS, SQL
- Engineered advanced routing and dynamic page generation with SvelteKit, leveraging Server-Side Rendering in order to boost site performance and user experience
- Established a small scale CI/CD pipeline (for demonstration purposes), automating deployments via Git, enhancing efficiency and reducing the likelihood of deployment errors
- Enhanced the application's front-end responsiveness and visual appeal by integrating Tailwind's easy to implement use for streamlined and customizable styling

Simon Ai (AI Application on Google Cloud)

Present

- <https://mysimonai.com/> ****[USERNAME: recruiter | PASSWORD: recruiterpass]****
- **Production Environment:** Node.js (Next.js) → Google Cloud Platform (App Engine), OpenAI, Replicate Pinecone, Git (version control)
- **Programming Languages used:** React, Typescript, Tailwind, SQL, LangChain (framework)
- Used LangChain for communicating with large language models which were essential for the AI chat functionality and used Pinecone as a vector database for handling embeddings in advanced AI models
- Utilized cost optimal services and dynamically scalable architecture, used API gateway for client to service communication
- Application hosted on Google Cloud Platform, managing databases with Prisma defined in application's schema

1911 (Video Game Python Application)

Present

- <https://jamesekhaton.com/download1911.html> ****[Download may require system permissions (macOS only)]****
- **Production Environment:** OpenGL, Python Environment → PyInstaller
- **Programming Languages used:** Pygame, ModernGL, Numpy, PyGLM, Numba, OpenSimplex
- Implemented ambient occlusion technique to mimic exposure of each voxel frag to ambient lighting using the vertices of each chunk (block)
- Applied mathematical models to calculate camera perspective, including FOV and clipping planes, enhancing the realism of the 3D scene
- Implemented efficient ray casting algorithms to detect player's focus within a voxel-based environment as well as a frustum culling technique to render chunks in viewable area

Leet Gold (AI Powered Chrome Extension)

Present

- <https://github.com/jekhaton/Leet-Gold.git>
- **Production Environment:** Local Environment (Standard IDE) → Git (version control), OpenAI
- **Runtime Languages used:** HTML, CSS, Javascript
- Built engine that leverages an advanced machine learning model in order to analyze and propose optimal solutions for coding problems found on LeetCode

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- Engineered the machine learning model that curates insightful explanations for the generated code solutions, assisting users in understanding the underlying logic and potentially uncovering opportunities for further optimization as well as time and space complexity of proposed solutions

NavFriend (Navigation App on Google Cloud)

Present

- <https://storage.googleapis.com/navigation-app/index.html>
- **Production Environment:** Local Environment (Standard IDE) → Google Cloud Platform (static storage)
- **Runtime Languages used:** HTML, CSS, Javascript
- Using Google Cloud Platform, I built an app that allows the user to navigate with ease using my cutting-edge navigation app
- Whether traveling by car, bike, or on foot, my app provides turn-by-turn directions to help the user reach their destination efficiently

EDUCATION

Undergraduate: Pennsylvania State University (Computer Science)

Class of 2018

- *Relevant Coursework:* Intro Prgmg Tech (CMPSC 121), Prog & Comp II (CMPSC 132), Discrete Math/Cs (CMPSC 360) Programming Language Concepts (CMPSC 461), Data Structures and Algorithms (CMPSC 465)

CREDENTIALS

GCP Associate Cloud Engineer (Udemy)

Current

- <https://ude.my/UC-7b05d321-351e-4459-a3b7-d7fd7536469c>

Cloud Engineering

Current

- https://www.cloudskillsboost.google/public_profiles/7d45f3d6-d881-4283-bd40-c16522b596a1/badges/5670597

Data and Machine Learning

Current

- https://www.cloudskillsboost.google/public_profiles/7d45f3d6-d881-4283-bd40-c16522b596a1/badges/5385457

Google Cloud Essentials

Current

- https://www.cloudskillsboost.google/public_profiles/7d45f3d6-d881-4283-bd40-c16522b596a1/badges/5162313

Language Processing (Machine Learning)

Current

- https://www.cloudskillsboost.google/public_profiles/7d45f3d6-d881-4283-bd40-c16522b596a1/badges/5194041

TensorFlow on Google Cloud

Current

- https://www.cloudskillsboost.google/public_profiles/7d45f3d6-d881-4283-bd40-c16522b596a1/badges/5251311

EXTRACURRICULAR ACTIVITIES

THON (PSU Dance Marathon)

February 2015 - Present

World's Largest Student-Run Philanthropy, Pennsylvania State University, PA

- <https://thon.org/>
- Active volunteer in contributing to the total \$10 million+ raised annually to fight pediatric cancer for THON

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Sigma Alpha Mu (Fraternity)

November 2014 - Present

Sigma Alpha Mu International Fraternity, Pennsylvania State University, PA

- <https://sam.org/>
- Social Apprentice/ Risk: Contributing to management of social events
- Sparking deliberations concerning events held with other fraternities
- Organizing and maintaining social gatherings
- Delegating purchases necessary to uphold a successful social environment
- Overseeing social functions and working closely with Pennsylvania State University administration

SKILLS

Python + React + Typescript + Tailwind + Javascript + HTML + CSS + Pygame + PHP + Numba + Google Cloud + AWS + LangChain + Prisma + Git + Github + Nodejs + OpenGL + Numpy + Data Structures and Algorithms + System Design + Cloud Computing + Java + Business Strategy + Full Stack + OpenAI + LLMs + Replicate + Pinecone + API Integration + Kubernetes + Docker + IaaS + PaaS + MySQL + NoSQL + Svelte + SvelteKit + Server-Side Rendering (SSR) + CI/CD Pipeline