

Hemen Babis

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PROFESSIONAL SUMMARY

Computer Science and Mathematics senior pursuing a dual degree, driven by curiosity and creativity to build intelligent systems that merge AI, design, and human experience. Skilled in generative AI, multimodal learning, and full-stack development, with hands-on experience deploying AI-powered tools that make research, collaboration, and storytelling more intuitive. Passionate about crafting solutions that bring innovation to life across industries - from science and bioinformatics to art, fashion, and film.

EDUCATION

Portland State University Honors College

Portland, OR

Bachelor of Science in Computer Science, Minor in Physics

Graduation: March 2026

GPA: 3.76 | Honors/Awards: Full Tuition Scholarship, Honors Laurels Scholarship

Relevant coursework: Data Structures & Algorithms, Machine Learning, Software Engineering, Quantum Computing

Portland Community College

Portland, OR

Associate of Arts Oregon Transfer: Computer Science

Jan. 2022 – June 2023

GPA: 3.89 | Honors/Awards: President's List, Dean's List, Phi Theta Kappa

TECHNICAL SKILLS

- **AI & ML:** NLP (Transformers, LLMs), Deep Learning (CNNs, RNNs), Generative AI, Quantum Computing (Qiskit)
- **Programming & Computational Tools:** Python (TensorFlow, PyTorch, Biopython, scikit-bio), C++, C, Java, JavaScript, SQL, R (tidyverse, Bioconductor)
- **Software Development & Cloud:** Flask, FastAPI, REST APIs, React (Next.js, TypeScript), Google Cloud (BigQuery, Cloud Functions), Linux, Git, Docker
- Creative problem-solving, strong communication, collaboration, adaptability

RELEVANT EXPERIENCE

Stealth Startup- Applied AI/ML Intern | San Francisco, CA

Aug. 2025 – Oct 2025

- Designed evaluation strategies and domain-specific metrics for VLMs in bioinformatics and microscopy imagery.
- Benchmarked <100B parameter models using structured evaluations and reusable fine-tuning pipelines.
- Integrated tools like TwelveLabs for multimodal lab data; supported agent design with LangGraph and AWS.
- Maintained clean, documented repos to ensure reproducibility and collaboration across experiments.

Agents4Hire - AI/ML Engineer Intern | San Francisco, CA

Sep. 2024 – Jun 2025

- Achieved 30% increase in productivity by developing and deploying an AI-driven project management tool using Gemini API.
- Boosted operational efficiency by optimizing business automation models with Python & TensorFlow, reducing manual tasks.
- Cut operational overhead by designing and integrating a real-time task prioritization system using Flask.
- Enhanced user engagement by 25% through AI-driven solutions, collaborating closely with full-stack engineers, streamlining decision-making and improving end-user satisfaction.

PROJECTS

AI-Powered Research Assistant - Lead Developer | Team of 3

[GitHub](#)

- Reduced manual research time by 50% by developing an AI-powered assistant that summarizes PDFs, extracts key insights, and automates queries.
- Increased data extraction precision by 30% by optimizing NLP pipelines with LangChain & OpenAI API.
- Enhanced query processing efficiency by 40% by integrating Flask-based API with Google Cloud.
- Tech Stack: Python, OpenAI API, LangChain, Flask, Google Cloud

Stock Price Predictor | Solo Project

[GitHub](#)

- Developed an LSTM-based deep learning model in TensorFlow, achieving 85% stock price prediction accuracy, aiding investors in making informed decisions
- Improved training efficiency by 20% through feature engineering and data normalization in Pandas & Scikit-Learn.
- Enabled real-time market analytics by deploying a Flask-based API on Google Cloud.
- Tech Stack: Python, TensorFlow, Scikit-Learn, Pandas, Flask

AI-Driven Project Manager - AI Engineer | Team of 12

[GitHub](#)

- Increased workflow efficiency by 35% by designing a project management assistant powered by Gemini AI.
- Automated task assignments & tracking with an AI-powered prioritization model, streamlining project execution.
- Integrated AI with project management tools through a Flask-based API for seamless workflow automation.
- Tech Stack: Python, Flask, Gemini API, Google Cloud