



Thomas King

Researcher — Technology Consultant
Builder — Teacher

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🏠 www.tomking.io

"Machines take me by surprise with great frequency"

~ Alan Turing

Objective

Perspective PhD student with a strong background in computer science, biology and mathematics seeking to carry out research in biologically inspired AI in the Neurobotics Lab at the University of Vermont.

Professional Experience

Self Employed

2022-Current

Technology Consultant

- Designed and built SaaS web platform providing services for business owners
- Rebuilt portions of a SaaS platform that had poor design and implementation
- Advised clients on modern web development practices and tooling
- Continued development of prototype document tooling to aid in processes within the pharmaceutical regulatory industry
- Advised clients on potential approaches to apply custom LLMs and associated pipelines within a product offering
- Developed web application based demos of various NLP approaches to challenges within a potential product

Paraplex Software (Early Stage Software/Game Startup)

2020-2022

Lead Developer

- Architected and implemented system for multiplayer game mechanics, persisted state, and cloud computation using Firebase
- Designed and implemented backend user account system for company's future products
- Designed, implemented, and integrated backend system using Typescript and C#/Unity for mobile-first online-only video game
- Deployed and maintained internal systems
- Communicated and worked with small team on all aspects of current competitive video game project

Canopy Life Sciences (FKA Framework Solutions)

Summer 2020

AI Software Engineering Intern

- Researched developments in automated regulatory compliance checking
- Developed prototype web application for document evaluation using Node.js and Vue along with Javascript/Typescript, Python, Docker, and MongoDB
- Utilized REST APIs to pull relevant information from government databases
- Implemented machine learning models to classify text from documents
- Incorporated natural language processing techniques to analyze text
- Implemented an initial ML approach to classifying text within documents
- Communicated with team members and company members about technical ideas and project direction

Robotics and Beyond

2017-2019

Assistant Camp Director

- Planned and implemented four-week educational STEM summer camp program
- Managed instructional staff (~ 40 individuals), and program budget of \$65,000
- Proposed and led implementation of new internal backend using GSuite
- Co-created current scheduling and management structure for 25-40 staff, and 40-60 students per week
- Co-managed hardware, software, and space requirements including securing facilities, organizing equipment transport, PC imaging, etc.
- Provided input on the future direction and goals of the organization

Education and Research

University of Massachusetts Amherst

2019-2022

B.S. Computer Science

GPA: 3.834

- Minor in Biology
- Minor in Mathematics

Clarkson University

2018-2019

Pursued B.S. Computer Science & Biology

GPA: 3.608

- Clarkson School Early College Program Class of 2019
- Undergraduate Computer Science Researcher in the Terascale All-Sensing Research Studio
 - Gathered thermal image data, and implemented image processing techniques to map thermal data into 2-dimensional user-input.

New Milford High School

2015-2019

GPA: 4.40

Awards and Recognitions

Commonwealth Honors College Scholar with Greatest Distinction

2022

University of Massachusetts Amherst

Graduated Cum Laude

2022

University of Massachusetts Amherst

Member of Clarkson University Honors Program

2018-2019

Clarkson University

Chancellor's Scholarship (Four Year Merit Award)

2019-2022

University of Massachusetts Amherst

Dean's List - All Semesters

2018-2022

University of Massachusetts Amherst & Clarkson University

Eagle Scout

2018

CT Rivers Council (New Milford Troop 58)

Skills and Competencies

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|--------------------------------|-------------------------------------|------------------------------|
| - Software Development | - IT Services | - Problem-Solving |
| - Database Design | - Scientific Computing | - Critical Thinking |
| - Web Development | - Machine Learning | - Technical Communication |
| - Systems Design | - Natural Language Processing | - Tech Risk-Benefit Analysis |
| - Site Reliability Engineering | - Knowledge of SoTA AI Technologies | - Business/Startup Needs |
| - Cloud Based Design | - Systems Management | - Instruction/Education |
| - Linux | - Workflow Optimization | - Product Development |
| - Cybersecurity | | - Project Roadmapping |