



Thomas King

Researcher — Technology Consultant
Builder — Teacher

✉ business@tomking.io

🏠 www.tomking.io

"Machines take me by surprise with great frequency"

~ Alan Turing

Objective

Blank.

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 |