DAVID CHEUNG

(224) 310 8454 ⬧ davidcheung0720@gmail.com ⬧ https://dcheung0720.github.io/Portfolio ⬧
https://www.linkedin.com/in/david-cheung-473434226/

EDUCATION

Northwestern University	*June 2023*
⬧**Master of Science** in **Computer Science**	Cumulative GPA: 4.00/4.00
⬧**Bachelor of Science** in **Computer Science**	Cumulative GPA: 3.92/4.00
Northwestern University Data Science Bootcamp by edx	*June 2024*
⬧**Certificate, Data Science** and **Data Analytics**	Grade: A+

RELEVANT COURSES

Agile Software Development⬧Web Development⬧Software Rapid Prototyping⬧Data Science⬧Game Development⬧Artificial Intelligence⬧Computer Science Education⬧Machine Learning⬧Deep learning

SKILLS

Programming Languages/Web Skills: **JavaScript⬧HTML⬧CSS⬧Python⬧SQL⬧C#⬧Java**

Framework, Engines, Cloud, Databases: **React⬧AWS⬧GoogleCloud⬧Tensorflow⬧Unity⬧Firebase⬧MongoDB**

PROFESSIONAL EXPERIENCE

Hexfork   **Oxford, UK**
Software Developer Intern, Games   *June 2023 – September 2023*
- Successfully developed 2D arcade games utilizing Unity and C# programming, adhering to precise client specifications
- Designed innovative game mechanics and player interactions, strategically focusing on creating player-friendly environments
- Spearheaded a cohesive team of five individuals in project management, using tools such as Trello, establishing streamlined communication channels, and conducting regular standup meetings to optimize workflow and enhance overall productivity

Law Center for Better Housing   **Evanston, IL**
Contract Software Developer   *January 2023 - April 2023*
- Created a web application using ReactJS and MongoDB, seamlessly integrated within the Help Scout platform, and reducing housing inquiry response times by 15% through generating canned responses for paralegals based on inquiry classification
- Engineered a Flask-based backend API, applying machine learning (KNN) to autonomously extract and categorize housing inquiries, showcasing development proficiency and a commitment to cutting-edge technologies in streamlining workflow processes
- Crafted a visually appealing user interface using Bootstrap, complemented by seamlessly implemented event handlers, enabling smooth transitions for users navigating between the Help Scout platform and the web application

Adobe   **Evanston, IL**
Contract Software Developer   *March 2022 - June 2022*
- Developed a PDF parser application using ReactJS with a Firebase backend, showcasing expertise in both frontend and backend technologies to efficiently extract and simplify crucial information from complex legal documents into user-friendly terminologies
- Implemented term matching algorithms into the application, a strategic addition that significantly bolstered the accuracy of document analysis by proficiently identifying and filtering relevant information
- Scheduled weekly meetings with my team and clients to discuss and ensure up-to-date progress expectations that allow iterations and improvements on the PDF parser's functional and visual design

PROJECTS

Turbo Math |https://turbomath-a0c94.web.app
- Developed "Turbo Math," a responsive website game in ReactJS with Firebase Real-Time Database which significantly boosted students' mental arithmetic speed by 25%, showcasing expertise in crafting engaging and effective educational platforms
- Extracted and transformed data from Firebase to create real-time data-driven visualizations with D3 JS, empowering students to actively monitor and assess their learning progress for an engaging educational experience
- Utilized React Bootstrap and FontAwesome Icons to create an appealing user interface for the target age group

Heart Disease Predictor|https://data-insiders.web.app
- Developed a web application in ReactJS - allowing users to enter personal information and receive a probability from a Tensorflow model using TensorflowJS on their likelihood of having a heart disease
- Designed and created data visualizations using PlotlyJS with data query through a AWS pipeline: API Gateway, Lambda, and DynamoDB, allowing users to assess risk factors for having a heart disease
- Cleaned and analyzed a heart disease dataset through Pandas to develop a tuned deep learning model with 71% accuracy in Tensorflow to predict a person's likelihood of having a heart disease

UFC Meta |https://ufc-meta.web.app/
- Developed a web application in ReactJS with a Firebase Real-Time Database backend that stores the fighter data, allowing users to interact with a slider to perform statistical tests on player stat proportions and see the prediction made by a Tensorflow model
- Extracted and transformed data from the UFC statistics website through BeautifulSoup web scraping, regular expressions, and Pandas to perform significance tests and develop different machine learning models for winner predictions
- Employed CSS animations to animate phase-in effects on images to improve user experience and appeals