Khoa Tonthat

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EDUCATION

University of Minnesota-Twin Cities   Minneapolis, MN
Bachelor of Computer Science, Cumulative GPA: 3.7/4.0   *Aug. 2021 – Dec. 2023*

EXPERIENCE

Software Engineer   June 2023 – Present
MT Nails   *Woodbury, MN*
- Independently built and launched MT Nails' website, acting as the sole software engineer for the project.
- Collaborated directly with the client to understand their needs and create a user-friendly website that facilitated appointment bookings and increased web traffic by over.
- Increased efficiency and streamlined operations for MT Nails through the implementation of online booking capabilities.

Teaching Assistant (TA)   September 2023 – December 2023
University of Minnesota   *Minneapolis, MN*
- Served as a Data Structures Teaching Assistant, guiding over 100 students through fundamental concepts such as arrays, linked lists, trees, and graphs.
- Collaborated with course instructors to create engaging lab materials and refine course content.
- Provided constructive feedback on code, emphasizing efficiency, organization, and algorithm selection.

PROJECTS

Shred Central | ReactJS, Redux, NodeJS, ExpressJS, MongoDB
- Constructed a full-stack responsive and accessible E-Commerce website for selling snowboard gear in which customers could add/remove items to cart and filter items from brand and price
- Enhanced the UX with product searching, visually appealing carousels, and clear pagination for product discovery.
- Implemented an admin area to manage customers, products, and orders.

BetterGPT | ReactJS, Redux, Flask, MongoDB, TailwindCSS
- Built a full-stack application that allows GPT-3 analysis of PDF files, websites, and Youtube videos.
- Implemented a Flask-based file upload and parsing pipeline, enabling data to be seamlessly interpreted by GPT-3
- Designed and implemented a modern frontend featuring a seamless chat interface with persistent chat history
- Opened to a community of almost 10 users, garnering excellent feedback on functionality.

Drone Uber Eats Simulation | Java, Javascript, C++, CSS, HTML
- Supervised and led the team as the scrum master in an **Agile** environment. Provided ideas for problems and delegated tasks to ensure that the project was completed on time.
- Implemented asystem on an existing code base with fundamental design principles and patterns to gather real-time information on order details and status.
- Presented the implementation through a YouTube video that was able to impress the product owners and receive excellent feedback.

Cartoonify | ReactJS, Python, AWS Lambda
- Developed a scalable and cost-effective serverless web application leveraging CartoonGAN to transform user-uploaded images into stylized cartoons.
- Designed an intuitive React frontend providing a seamless user experience for image uploads, customization options, and cartoonified image downloads.
- Implemented a robust and efficient AWS Lambda backend to handle image processing, ensuring rapid cartoonification with optimized use of cloud resources.

TECHNICAL SKILLS

Languages: Python, Java, C++, C, SQL, Javascript, Typescript, HTML, CSS
Frameworks / Libraries : React, Next.js, TailwindCSS, Redux, Express.js, Node.js, Web3.js, Tensorflow, Pandas
Developer Tools: Spark, Map-reduce, Git, Remix, React, VS Code, Visual Studio, PyCharm, IntelliJ, PostgreSQL
Development Strategies: Agile, Scrum, Waterfall