Ishaan Dey

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Software Engineering (Co-op)   *2023 – 2027*

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C, C++, SQL, Java, HTML, CSS
Libraries: Next.js, React, React Native, Node.js, TailwindCSS, Flask, Tensorflow, PyTorch, Jest, Cypress, Three.js
Developer Tools: GraphQL, MySQL, PostgreSQL, Docker, WebSockets, Jupyter Notebook, AWS, GCP, Linux

EXPERIENCE

Frontend Lead   Feb. 2024 – Present
Wat Street   *Waterloo, ON*
- Architected an algorithmic trading backtesting application, integrating stock and crypto market data APIs
- Visualized Tensorflow deep learning model simulations with custom graphing components in React and Typescript
- Managed a team of 6 developers, making roadmaps and scrum boards to implement new features and algorithms

Software Engineer   Jun. 2023 – Aug. 2023
StartupHire   *Remote*
- Led the development of a startup hiring platform with a suite of generative AI services, using GPT-4 and PaLM
- Created LLM-based search, resume fine-tuning, and employer dashboards with Next.js, React, MySQL, and AWS
- Followed the software development lifecycle through unit testing, code reviews, and CI/CD with GitHub

Founder   Aug. 2022 – Aug. 2023
Maxed Web Agency   *Toronto, ON*
- Developed new web apps for small to midsize businesses with React, boosting conversion rates by 30% on average
- Optimized existing sites and integrated content management systems, scoring 100% Lighthouse performance
- Reviewed and created technical design documents based on business requirements, following agile methodologies

Software Engineer   Jan. 2022 – May 2022
Ontario High School Esports Association   *Toronto, ON*
- Designed and developed a Esports tournament registration website for over 2000 students across Ontario
- Led a team of engineers to build a web app and custom OAuth backend using React and Express.js

PROJECTS

TeachAssist App | *React Native, JavaScript, Python*   App Store | Nov. 2021 – May 2022
- Developed an iOS & Android app for students with marks, guidance appointments, and teacher lookups
- Architected a Python backend for authentication, web scraping, and RESTful API hosting
- 5000+ current active users, and top 100 education apps on the Apple App Store on release

Jarvis | *OpenCV, MediaPipe, WebSockets, Python, React, Three.js, TypeScript*   GitHub | Oct. 2023 – Dec. 2023
- Made a gesture-controlled hologram using hand movements to manipulate 3D models, featured on OpenCV Live
- Integrated hand tracking, depth sensing, gesture recognition, distortion analysis, and Flask multithreading
- Rendered 3D models with Three.js and React with Typescript, making real-time updates with WebSockets

CogniCare | *OpenAI, OpenCV, Flask, Python, Next.js, React, TypeScript*   DevPost | Nov. 2023
- MHacks hackathon winner, developed a machine learning memory loss detection and prevention system
- Analyzed long-form video with OpenCV and GPT-4 with vector embeddings, using visual and auditory context to generate interactive cognitive exercises which promote memory retention

Threads Web App | *Next.js, React, TypeScript, PostgreSQL, Prisma*   GitHub | Jul. 2023
- Reverse engineered Meta's Threads app within 5 days of its release, got over 240 GitHub stars and 500 users
- Implemented React server components, Next.js server actions, object-relational mapping with Prisma and PostgreSQL, and a content moderation data pipeline with NLP