Harsh Eary

Full-stack Developer | AI Student

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Education

Advanced Diploma in Software Engineering - AI January 2024 – December 2026
Centennial College, Scarborough, ON *GPA - 4.32/4.5*
Focus Areas: *Artificial Intelligence, Data Structures & Algorithms, Object-Oriented Programming, Full Stack Web Development, Operating Systems, System Design, Software Testing and QA*

Experience

Software Developer Intern September 2025 - December 2025
Tetra Tech *Pickering, ON*

- Developed a full-stack AI-powered application using ASP.NET Core (.NET 8), React, and TypeScript, automating engineering document analysis workflows and reducing manual processing
- Integrated Azure AI services (Document Intelligence and OpenAI) with backend services using Entity Framework Core and SQL Server, enabling structured data extraction and automated engineering insights
- Designed and implemented secure RESTful APIs with structured logging, robust error handling, and authentication, supporting enterprise-grade system integrations
- Contributed to internal developer tooling by enhancing a scaffolding CLI and building reusable React components, improving development consistency and onboarding across teams

Website Developer Intern January 2025 - April 2025
Physiomed *Oakville, ON*

- Built internal web tools for tracking patient and athlete rehab progress; enabling kinesiologists and clients to access personalized fitness programs and reducing reliance on manual tracking
- Developed secure and scalable backend services, using Appwrite for authentication, database operations, and serverless functions; contributing in 3 key endpoints for login, progress updates, and exercise delivery
- Collaborated on React frontend, implementing login and dashboard components to display structured exercise plans and progress reports, improving usability for both clinical staff and patients
- Coordinated with a cross-functional team of 4+ kinesiologists from diverse specialties, incorporating feedback into planning and testing to align features with real-world physiotherapy workflows

Projects

Mystery Message | *Next.js, TypeScript, NextAuth, OpenAI API, MongoDB, ZOD, ShadCN, Resend API*

- Designed and developed a full-stack anonymous messaging app using Next.js and MongoDB, handling 500+ secure messages in testing
- Created and deployed RESTful API endpoints to support messaging , user verification, and OpenAI integration
- Implemented OTP-based login using Resend API and NextAuth, preventing unauthorized access
- Integrated OpenAI's API to generate message suggestions, showcasing AI-assisted communication in real-time

Traffic Fatality ML Project | *Scikit-learn, Feature Engineering, Model Training, Pipeline Design, Model Evaluation, Flask*

- Built an end-to-end machine learning pipeline to predict accident fatality outcomes using the Traffic Police KSI dataset (18K+ records), achieving 80% recall on the fatality class despite significant class imbalance
- Performed comprehensive data preprocessing and feature engineering, including aggregating individual-level records into accident-level observations, applying SMOTE for class balancing, and training ensemble-based models
- Deployed a Flask-based REST API to serve real-time fatality predictions based on accident and environmental factors

Technical Skills

Languages: Python, C#, TypeScript, Java, SQL
Frameworks & Libraries: .NET Core, React, Next.js, Node.js, Express.js (RESTful APIs), Socket.IO,
Machine Learning: pandas, NumPy, Scikit-learn, TensorFlow, Keras, NLTK
Databases: MongoDB, MySQL, Oracle Database
Developer Tools: Git, Docker, Postman, Linux, Azure DevOps