Yash Aanand

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EDUCATION

University of Waterloo — Apr. 2029
Bachelor of Computer Science, Honours Co-op — *Waterloo, ON*

Relevant Courses
Designing Functional Programs (Adv), Algorithm Design and Data Abstraction (Adv), Algebra (Adv)

TECHNICAL SKILLS

Languages: C/C++, Java, JavaScript, Python, MongoDB (Mongoose), HTML/CSS, TypeScript, Bash, SQL
Frameworks: React, Node.js, Express.js, Next.js, Flask, Tailwind, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, AWS
Libraries/Tools: pandas, NumPy, Sci-Kit Learn, Matplotlib, TensorFlow

EXPERIENCE

Software Engineering Intern — Aug. 2023 – Sep. 2023
Parkquility — *Bangalore, IN*

- Developed dynamic and responsive web applications using React, HTML/CSS, JavaScript, and Node.js, improving user engagement by 18%
- Integrated RESTful APIs and optimized data pipelines with Express.js, reducing response times by 25%
- Designed a real-time monitoring dashboard with MongoDB (Mongoose) and Flask, streamlining internal communication and improving collaboration efficiency
- Refactored legacy codebases to adopt TypeScript, and containerized applications with Docker while automating deployment pipelines using Git, enhancing scalability

Head of Technology — Jul. 2022 – Aug. 2023
National Public School RNR — *Bangalore, IN*

- Guided the design, development, and deployment of the Model United Nations (MUN) website using React, Tailwind, and Node.js, serving 500+ participants
- Integrated MySQL for efficient event updates and account management systems, ensuring real-time data synchronization
- Utilized Tailwind CSS for UI design and Node.js for backend functionality and user management
- Developed an isolated dashboard using React, Tailwind CSS, and Node.js with MySQL for managing registrations, schedules, and real-time notifications

PROJECTS

ClusterHex | *JavaScript, jQuery, MongoDB, Passport.js, Node.js, Bootstrap, AWS* ⬡

- Developed a full-stack location review app with Passport.js for secure authentication and Node.js/Express.js for session management
- Utilized MongoDB and Mongoose for data storage, integrating RESTful APIs for frontend-backend communication
- Designed a responsive UI with Bootstrap, added dynamic features with jQuery, and implemented a real-time map using AJAX, with integration of geocoding for high accuracy markers
- Deployed on Heroku and hosted MongoDB on AWS EC2 for scalability and performance

HashChain | *JavaScript, React.js, Node.js, MySQL, SHA256 encryption, CSS, Git* ⬡

- Developed HashChain, a blockchain-based supply chain system ensuring transparency, traceability, and security using custom blockchain and SHA256 encryption
- Built frontend using React.js with QR code integration for real-time product tracking and consumer access to sourcing information and transaction histories
- Utilized Node.js backend with MySQL for secure data storage, transaction processing, and inventory management
- Implemented blockchain-powered inventory system to track product transformations and transaction integrity