

# Hayden Cordeiro

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## PROFILE OF SKILLS

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- Developed award-winning games “Zenscape” and “Space Tycoon” using Unity, C#, garnering over 2000 impressions.
- Analyzed complex problems to identify root causes and devised effective solutions, enhancing project outcomes and contributing to overall team success.
- Collaborated effectively with multidisciplinary teams, including Developers, Quality Assurance, and Product Management, to deliver high-quality software products within specified timelines, fostering a cohesive and productive work environment.
- Developed and debugged software applications using Java, JavaScript, and SQL, resulting in efficient and functional solutions that met client requirements, including cloud-based solutions and mobile apps for Android or iOS.
- Utilized knowledge of the Software Development Life Cycle (SDLC) to gather requirements, design, develop, test, and deploy robust software solutions, ensuring alignment with project objectives and client expectations.
- Demonstrated adaptability and eagerness to learn by quickly grasping new concepts and technologies, enhancing personal and team capabilities to tackle diverse challenges effectively.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, R, JavaScript, C, Ruby, C#, C++, Java, SQL
- **Visualization Tools:** PowerBI
- **Libraries:** Apache Kafka, Redux, Tailwind, Bootstrap
- **Database & Data warehouses:** Firebase, MongoDB, Google Big Query, InfluxDB, PostgreSQL
- **Tools:** Postman, Android Studio, Jira, Git, MongoDB, Vite, Browserstack, Grafana, Redpanda Console, Jenkins
- **Frameworks & Libraries:** React, Node.js, Django, FastAPI, Flask, Astro, React Native, Spring Boot, Selenium, Express.js

## EDUCATION

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**Master of Applied Computing** Sep 2023 - Dec 2024  
University of Windsor Windsor, ON

Final semester of program requires a 4- or 8- month internship that would start in September 2024.

**Coursework:** Advanced Database Topics, Advanced System Programming, Advanced Software Engineering

**Bachelor of Engineering in Computer Engineering** Jul 2018 - Jul 2022  
University of Mumbai Mumbai, IN

**Coursework:** Relational Database, Operating Systems, Networking, Project Management, Big Data

## WORK EXPERIENCE

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**Software Development Engineer in Test** Jan 2022 - May 2023  
[Browserstack](#) Mumbai, IN

- Enhanced automation test written in Ruby, achieving 97% stability in a 5000-case cross browser web application test suite, while collaborating on the development of a Chrome extension to automate workflows, thereby increasing efficiency.
- Authored Python scripts and documented test plans to facilitate the testing of data pipelines and ETL operations, resulting in a 10% increase in testing coverage.
- Executed rigorous quality assurance and testing on complex data pipelines and Looker dashboards deployed across Apache Airflow, Amazon S3, BigQuery (data warehouse), and Amazon RDS, facilitating seamless data processing and visualization.
- Drove the completion of high-priority tasks, including changes to checkout and authentication flows, contributing to multiple projects, and ensuring on-time delivery with zero P0 and P1 bugs.
- Implemented initiatives to streamline testing processes, including migrating test cases, enhancing reporting tools, and implementing a new pipeline, resulting in efficient debugging and a 4-hour reduction in regression time.
- Partnered with product management teams following agile SCRUM practices to develop a Chrome extension automating manual workflows, enhancing efficiency while aligning with product objectives and user requirements.

**Full Stack Developer Intern** Nov 2020 - Oct 2021  
[Young Women’s Christian Association](#) Mumbai, IN

- Collaborated to conceptualize and implement an Android and iOS application, simplifying event registration, data access, and creating an engaging success story showcase, resulting in significantly enhanced organizational efficiency.
- Integrated Firebase for secure authentication and real-time analytics, while leveraging VBA macros to automate data analysis processes, enabling streamlined decision-making, and reporting for enhanced business insights.
- Stimulated a 15% surge in event attendance and participation through the implementation of push notifications.
- Achieved a 13% increase in event views and a 30% surge in registrations by implementing notifications through the integration of Firebase and Node.js by exposing a RESTful API enabling the administrator to alert users.

## PROJECTS

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- NetSocket** | Grafana, C, Socket Programming, Kafka, InfluxDB, Redpanda, Python | [Code](#) | [Demo](#) Mar 2024 - Apr 2024
- Conceptualized a scalable client-server architecture in C, facilitating multiple clients to execute commands and enabling load balancing across server instances for enhanced performance.
  - Integrated Kafka, InfluxDB, and Grafana for real-time monitoring and data visualization of system metrics, including client connections and server resource utilization.
  - Led optimization efforts in socket connections and kernel system calls, improving network performance and reliability while collaborating with cross-functional teams to ensure seamless integration of monitoring solutions.
  - Leveraged data analytics techniques to optimize backend infrastructure components.
- VirtuHire** | React, JavaScript, MongoDB, AI, GANs, NLP, LLM, Flask, OpenCV, Git, Express | [Code](#) Sep 2023 - Dec 2023
- Devised an innovative AI based virtual avatar system to refine candidate screening processes.
  - Incorporated OpenAI's LLM models through their RESTful APIs to dynamically generate insightful questions tailored to the job posting and candidates' resumes, enhancing the screening and interview process utilizing AI-driven capabilities.
  - Evaluated a machine learning and AI based systems enabling simultaneous screening of thousands of candidates, ensuring equal opportunity for all, and addressing challenge of processing large candidate pools.
  - Integrated security features, including real-time detection of multiple participants and candidate movement monitoring, minimizing fraudulent interviews, and ensuring a secure process.
- StreamIt** | Airflow, Kafka, Zookeeper, Spark, Hadoop, Cassandra, PostgreSQL, Docker | [Code](#) | [Demo](#) Sep 2023 - Oct 2023
- Spearheaded the development of an end-to-end data engineering pipeline, orchestrating data ingestion from external APIs to PostgreSQL and implementing real-time streaming using Apache Kafka and Zookeeper for seamless data flow management.
  - Leveraged Apache Spark and Hadoop for efficient data processing, enabling complex transformations and analysis on streamed data, thereby deriving valuable insights to drive business decisions.
  - Engineered a scalable and fault-tolerant data storage solutions utilizing Cassandra, ensuring reliable storage and quick access to processed data for downstream analytics and reporting purposes.
- ShopSmart** | Spring Boot, React, Selenium, Vite, Nginx, AWS EC2, HTML5, Docker | [Code](#) | [Demo](#) Sep 2023 - Nov 2023
- Developed a full-stack web application using JavaScript and Spring Boot, integrating web scraping from multiple websites such as NoFrills, Aird, and Metro to populate a MongoDB database with product information.
  - Implemented a search feature with word completion (auto-complete) and spell check functionality, providing users with accurate and efficient search results even for misspelled terms.
  - Designed a product ranking algorithm to highlight the best deals based on factors like price, enhancing user experience and maximizing value for customers.

## PUBLICATIONS

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- CCRNET** | Deep Learning, Flask, Open CV, TensorFlow, Python, JavaScript | [IEEE](#) | [Demo](#) Jul 2021 - May 2022
- Researched a deep learning, computer vision-based methodology utilizing Convolutional Neural Networks (CNNs) to assess consumer interest in products through the analysis of non-verbal cues.

## AWARDS AND ACHIEVEMENTS

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- Best Innovative Project Award (9<sup>th</sup> CS Demo Day)** | University of Windsor Windsor, ON
- ACM Outstanding Website – 2023** | Association for Computing Machinery New York, US
- Technical Excellence Batch of 2022** | University of Mumbai Mumbai, IN

## ADDITIONAL EXPERIENCE AND VOLUNTEERING

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- Billing Data Entry Clerk** Dec 2023 - Jan 2024  
[Central Transport](#) Windsor, ON
- Extracted accurately shipment details in a fast-paced environment, while maintaining a typing speed of 69 words per minute and showcasing strong teamwork and communication skills.
- Tech Head, Vice Chair, Developer – Data Analyst, Game Development** Jan 2020 - Jun 2022  
[Association for Computing Machinery](#), [Teknack Gaming Studio](#) Mumbai, IN
- Revamped [dbit.acm.org](#), leading to over 70% improvement in page speed.
  - Designed and created award-winning android games, such as [Zenscape](#) and [SpaceTycoon](#) in C# using Unity Game engine, each amassing over 1000 downloads.
  - Mentored over 60 developers, resulting in over 25+ games released over a span of 2 years.
  - Managed development of impactful projects, including [shelterdonbosco.org](#), which garners over 1000 organic views monthly, and [placement.dbit.in](#) [The Botanist](#), [shantigharandheri.com](#), employing diverse technologies such as Astro, HTML5, JavaScript, CSS, and Java.