

ARPIT BHULLAR

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PROFESSIONAL SUMMARY

- Experienced Computer Science (Mobile Computing) graduate with expertise in mobile app development, machine learning, and cross-platform programming.
- Proficient in developing, testing, and deploying machine learning models, with experience leading teams to solve complex challenges.
- Skilled in mentoring team members and fostering effective collaboration in diverse team environments.
- Passionate about applying technical knowledge to drive innovation in healthcare, gaming, and software development.
- Strong ability to work collaboratively in team-oriented settings.

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, Kotlin, Swift, C#, JavaScript, PHP, HTML, CSS
- **Technologies & Tools:** Git, GitHub, Docker, Azure PCF, Jira, REST API, MySQL, Firebase
- **Machine Learning:** Model development, data preprocessing, neural networks, model evaluation
- **Operating Systems:** Windows, Linux, macOS

WORK EXPERIENCE

Software Engineering Research Assistant (Part-time)

Sep 2024 – Nov 2024

1266407 B.C. LTD. (Healthcare Systems R&A)

- Conducted experimental research to improve machine learning model performance, achieving a 25% accuracy improvement.
- Onboarded and mentored new team members, providing guidance on project setup and workflows.
- Collaborated with supervisors to implement enhancements based on research findings.

Software Engineering Research Assistant (Co-op)

Jan 2024 – Aug 2024

1328148 B.C. LTD. (Healthcare Systems R&A)

- Managed task assignments within a team to meet project deadlines and milestones.
- Enhanced knowledge of data preprocessing techniques and machine learning optimization.
- Contributed to the development of models for healthcare applications, focusing on improving prediction accuracy.
- Developed machine learning models for healthcare solutions, improving prediction accuracy by 14%.
- Worked on implementing and fine-tuning neural networks for real-world applications.
- Gained hands-on experience in leveraging video data for predictive modeling.

Software Engineering Research Assistant (Co-op)

May 2023 – Aug 2023

1328148 B.C. LTD. (Healthcare Systems R&A)

- Collaborated on machine learning models to classify complex datasets for interactive applications.

- Acquired advanced skills in data preprocessing and model evaluation techniques.
- Led a team of three to ensure successful project segmentation and execution.

Manager

June 2017 – Aug 2021

Charger logistics inc.

- Supervised a team of 15 in after-hours operations, ensuring seamless logistics coordination.
- Trained and mentored 12 employees, with three achieving promotions within six months.
- Oversaw four operational departments, honing leadership and multitasking capabilities.

Store Supervisor

Sept 2016 – April 2017

Little Caesars

- Delivered exceptional customer service and resolved client issues effectively.
- Ensured accurate financial transactions and supervised team performance to maintain high service standards.

EDUCATION

Honours Bachelor of Computer Science (Mobile Computing)

Sept 2020 - Dec 2024

Sheridan College, Oakville ON

- **Graduated** with a GPA of 3.12/4.00
- **Relevant Coursework:** Advanced Mobile App Development, Data Structures & Algorithms, Machine Learning
- Currently engaged in mobile app development for Android and iOS platforms.

Software Engineering Diploma

Jan 2016 - April 2017

Sheridan College

- **GPA:** 3.79/4.00
- Specialized in Java programming and advanced problem-solving techniques.

PROJECTS

BrainGym App (Cognitive Abilities Rehabilitation iOS App)

- Developed an iOS application aimed at enhancing cognitive abilities through interactive games, such as Tower of Hanoi and Simon Says.
- Integrated a recommendation system powered by a machine learning model (mobileBERT) to suggest games tailored to users' assessment scores.
- Designed a chatbot and an insights page to provide performance feedback and track progress using a custom performance index.
- Created three in-app games (Tower of Hanoi, Digit Span, and Card Matching) using Swift UI, alongside a Firebase-based user authentication system and Realm database operations for storing user data.
- **Achievement:** Secured 3rd place among all capstone projects during class finals.

CENTS App (Budget Management iOS App)

- Designed an iOS app to assist users in tracking and managing expenses.
- Integrated features for setting financial goals, monitoring progress, and tracking payment deadlines.

- Contributed to a team project, achieving an overall grade of 85%.

Food Ordering iOS App (FOOD APP)

- Built an iOS app enabling users to order food with integrated location services and Firebase-based authentication.
- Developed features for user account management and personalized restaurant recommendations.
- Achieved a team project grade of 90%.

MULTICLASS CLASSIFICATION USING MACHINE LEARNING

- Applied PyCaret to compare and optimize models for predictive analytics in complex scenarios.
- Improved model accuracy by 12% through feature engineering and algorithm tuning.
- Independently completed the project with a grade of 90%.

PORTFOLIO WEBSITE

- Created a personal portfolio website to showcase technical projects and skills.
- Utilized advanced CSS and organized design principles for enhanced user experience.
- Hosted the website on Amazon AWS for optimal performance and reliability.

Links:

Portfolio Website: [Click to open in a new tab](#)