# Tok Lam (Toryn) Chua

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## EDUCATION

**University of Toronto**                                                                                     Sep 2023 – May 2027
*Bachelor of Science, Computer Science Specialist*                                                            *Toronto, Canada*
- Arts and Science Internship program (Co-op)
- Relevant Coursework: Software Design (Java), Data Structures and Analysis, Systems Programming (C), Computer Organization (Assembly), Foundations of Computer Science (Python)

## EXPERIENCE

**Software Engineering Intern**                                                                               Mar 2025 – Present
*Fable Social*                                                                                               *Toronto, Canada*
- Contributed to the development of the Study Circle module and an AI-powered Recommendation Engine
- Co-operated cross-functionally to define, design, and refine user-centric product features
- Participated in technical planning, feature scoping, and researching scalable solutions, speeding up development by 30%

**Software Developer & Assistant Vice President of Technology**                                               Feb 2025 – Present
*University of Toronto Student Research Initiative (UTSRI)*                                                   *Toronto, Canada*
- Collaborated on the early development planning for a new website, by setting goals and researching web technologies
- Assisted in evaluating and selecting appropriate tech stacks for implementation
- Provided technical support during UTSRI events, resolving IT issues and resulting in 80% increased productivity

**Information Technology Support Intern**                                                                     May 2024 – Jul 2024
*Ecentra Sdn. Bhd.*                                                                                          *Kuala Lumpur, Malaysia*
- Diagnosed and documented 50+ website bugs via unit testing, enhancing performance and reliability
- Resolved 50+ IT issues, including software installations and network troubleshooting, improving internal efficiency
- Delivered technical support to 100+ clients, resolving issues within 24 hours on average leading to 90% satisfaction rate

## PROJECTS

**Book Reommendation System** | *Python, Tensorflow, NumPy, Pandas, Scikit-learn*                             May 2025
- Created a recommendation system using collaborative filtering and KNN, resulting in 70% accuracy
- Deployed Scikit-learn's NearestNeighbors algorithm on 1,000+ ratings to personalize book suggestions
- Cleaned and preprocessed large datasets using Pandas to enhance recommendation quality
- Employed a pivot table of ISBN-user ratings and transformed it into a sparse matrix for efficient model training

**Dr Mario** | *MIPS Assembly*                                                                               Mar 2025 – Apr 2025
- Engineered a tile matching game based on the classic Dr. Mario in MIPS Assembly
- Implemented gameplay features including tile-matching logic, gravity mechanics, random cell placement and movement logic
- Applied low-level programming concepts to simulate 2D gameplay with real-time movement

**COBWeb (UoftHacks 2025)** | *Javascript, React, Node.js, HTML/CSS*                                          Jan 2025
- Developed a fullstack AI-powered web application using React, Node.js, HTML, CSS, and Javascript
- Integrated the Gemini API to perform topic prediction through prompt engineering
- Enabled users to input article links or topics, generating AI-curated topic bubbles with relevant subjects and 90% relevancy

**Bill Splitter** | *Java, Swing, Git*                                                                       Nov 2024 – Dec 2024
- Built a Java program to automate bill splitting among users, featuring a Swing UI designed with Figma
- Incorporated Veryfi API to enable receipt scanning and bill-splitting functionality with 95% parsing accuracy
- Conducted rigorous unit and integration testing to validate accurate parsing, assignment, and payment calculations

**Predict and Contain (NewHacks 2024)** | *Matplotlib, Python, Git*                                          Oct 2024
- Programmed a predictive simulation in Python to model wildfire spread across a grid based map in 24 hours
- Used Matplotlib to accurately visualize the spread of fire and simulate the spread in real time

## EXTRA-CURRICULARS

**Peer Mentor**                                                                                              Oct 2024 – Apr 2025
*University of Toronto Computer Science Student Union*                                                        *Toronto, Canada*
- Mentored a student in balancing academics, internships and well-being with effective communication

**Media Director**                                                                                           May 2024 – Apr 2025
*University of Toronto Malaysian Singaporean Student Association*                                             *Toronto, Canada*
- Developed visually engaging materials for events using Canva, and promotional videos on Instagram increasing engagement

## TECHNICAL SKILLS & HIGHLIGHTS

**Programming Languages**: Java, Python, C, JavaScript, HTML/CSS, R, MIPS Assembly
**Frameworks**: Node.js, Tensorflow
**Developer Tools**: Git, VS Code, PyCharm, IntelliJ, Webstorm, Saturn, Sublime Text, Figma
**Libraries**: React, Pandas, NumPy, Matplotlib, SQLite, Java Swing, Pytest, Watchdog, Tkinter, Pygame, Scikit-learn
**Languages**: English (Fluent), Mandarin (Intermediate), Malay (Intermediate), Cantonese (Beginner)
**Other Skills**: Excel, Word, Powerpoint, Communication, Teamwork, Problem Solving, Critical Thinking