

# Zeeshan Chougale

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## EDUCATION

### University of Calgary

Bachelor of Science in Software Engineering (BSc)

GPA 3.98/4.0

Sept 2019–April 2024

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Networks, Software Architecture, Software Testing

## SKILLS

**Languages:** Python, C, C++, Java | **Databases:** MySQL, PostgreSQL, Firebase, Redis, AWS S3 | **Web Development:** React, JavaScript, HTML, CSS

**Tools/Framework:** Docker, Kafka, Kubernetes, Jira, Grafana, Kibana, Bash, Linux, Elasticsearch, PyTorch, Git, GitHub, Jenkins, OpenAI APIs

## WORK EXPERIENCE

### ACTIVISION, MICROSOFT

Software Developer Intern

Vancouver, BC

May 2022–Sept 2023

- Implemented **REST and XML-RPC APIs in Python** and client-side features in **C++** for upcoming Call of Duty titles' online services.
- Revamped Eventlog-ETL service, **vital for 50M+ users**, by integrating a **Kubernetes**-linked GitHub repository and **Kafka** streams, streamlining onboarding for upcoming game titles, and enabling smooth data flow to **AWS S3**.
- Developed a Reconciliation API for 3rd party micro-transactions from **Steam** while adhering to tight reliability and latency requirements.
- Enhanced team services' reliability by implementing alerting bots with **Grafana, Kibana**, and Slack for Kubernetes pod monitoring.

### SHAKTI LAB

Software Engineering Research Associate

Calgary, AB

May 2023–Sept 2023

- Awarded the prestigious **\$7,500 PURE Research Award** for exploring the practicality of combining **BERT** with various Active Learning strategies to reduce data annotation efforts in software applications.
- Conducted dependency prediction of tasks for large-scale open-source software projects (**Firefox, Mozilla Thunderbird, and SeaMonkey**) using AL + BERT, achieving **~4% performance improvement with 36% less annotated training data**.
- Presently, drafting a research paper aimed at expediting software project management and exploring diverse software applications.

### SOFTWARE ENGINEERING DECISION SUPPORT (SEDS) LAB

Software Engineering Research Associate

Calgary, AB

April 2021–Sept 2021

- Received **\$6,000 PURE Award** for pioneering novel semantic textual similarity analysis strategies, enhancing recommendation systems.
- Collaborated with **PACHIRA SOCIAL ENTERPRISE** to bridge academic research with practicality. Conceptualized and developed a contextualized recommendation system for their social networking platform, **boosting user interactions by 19%**.
- Developed a recommendation engine capable of generating research paper recommendations with **81% accuracy**, its performance was assessed by competing at a Global Hackathon, securing **1st prize of \$3000 out of 50+ competing teams**.

## HACKATHON-WINNING PROJECTS

### ResearchGram - 1<sup>st</sup> Place at Hip, Hack, Array Hackathon [300+ Participants]

August 2021

- Developed a **PyTorch**-based recommendation engine, incorporated in a **React** based web application, which aims to ease researching experience by generating publication recommendations from non-textual inputs (Videos, Audio, Doc files).

### ScholarAir– 2<sup>nd</sup> Place at Hunter Hub Hackathon [200+ Participants]

November 2023

- Engineered a scholarship applications management platform, utilizing **Flask, React, Firebase, and OpenAI APIs** to autofill applications, conduct AI-powered mock interviews, and provide personalized scholarship recommendations.

### Appalytics – 2<sup>nd</sup> Place at Hack Your Learning Hackathon [150+ Participants]

November 2022

- Developed **Python & React**-based Analytics web app for Developers to pinpoint issues reported by customers on Google Play Store. Implemented extraction, processing, clustering, and visualization of review data for efficient troubleshooting.

## LEADERSHIP EXPERIENCE

### SCHULICH AERODESIGN CLUB

Software Project Lead

Calgary, AB

Aug 2020–Jan 2023

- Developed a Python automation script to automate and optimize all the features of XFLR5 (Aerodynamics simulation software) which **reduced the Air foil and Plane Design analysis time by 80%**.
- Crafted and implemented graphical Tkinter-based user interfaces for individual script modules, enhancing user-friendliness.
- Spearheaded the collaboration of SAED club with NASA to organize **NASA Space Apps Challenge YYC 2021**.

### CODE THE CHANGE YYC

Director of Technology

Calgary, AB

Oct 2022–Aug 2023

- Scouted impactful open-source projects for the club, providing software development support to non-profits.
- Drove recruitment efforts and produced design documents, and development guides ensuring transfer of knowledge to new club recruits.