

Biswas Simkhada

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EDUCATION

University of New South Wales

Jan 2023 – Dec 2025

Bachelor of Science in Computer Science

Kensington, NSW

Relevant Coursework: Data Systems and Algorithms, Object Oriented Programming, Database Systems

EXPERIENCE

Software Engineering Program

Apr 2024 – May 2024

Accenture

Sydney, NSW

- Integrated a search functionality into an e-commerce platform's RESTful API using Spring Boot, followed by conducting over 50 JUnit tests using Spock to ensure the features performed correctly.
- Participated in a virtual Agile planning session, which broke down large software features into a set of smaller user stories as part of our simulated Sprints, focusing on developing key deliverables, including shopping cart capabilities, payment processing features, and shipping options.
- Designed and established automated CI/CD pipelines using a Jenkinsfile, creating an automated test environment using Gradle builds across all repository branches, greatly enhancing our efficiency when testing.
- Utilised Git CLI and GitHub to manage source code and upload changes, focusing on an organised and clean codebase within the team's collaborative dev environment.

PROJECTS

Tributary Event Processing System | *Java, Java Generics, JSON, Gradle*

Mar 2024 – Apr 2024

- Lead development of an Event-Driven System API (backend) in Java, with simultaneous data processing and creation by implementing Concurrency and other OOP Design principles.
- Developed a dynamic event rebalancing mechanism, called Range and Round Robin strategies within Consumer Groups, which honed my skills in algorithmic design
- Integrated a multi-type event queuing system using Java Generics, to ensure type safety, backed by Factory and Observer patterns to compact event production, consumption and allocation.
- Designed a robust message replay feature to track event streams and replay events from specified offsets to enable error checking and correction without compromising the system's performance.

Kahoot! Emulator | *TypeScript, JavaScript, Node.js, Express, Vercel*

Sep 2023 – Nov 2023

- Created a Kahoot-inspired 'Toohak!' API, in TypeScript, & JavaScript frameworks such as Node.js & Express.
- Collaborated in a team of 5 using Gitlab to programme the RESTful API with a full suite of HTTP requests, while achieving project milestones over 2 months.
- Integrated all CRUD operations into the API which allowed users to create, review and complete quizzes.
- Utilised correct OOP programming practices and learnt deployment fundamentals through Vercel.

EXTRACURRICULAR

Atlassian x UNIHACK Hackathon 2024 | UNIHACK

Feb 2024 – Mar 2024

- Contended for UNIHACK 2024's Most Engaging Pitch Award with a compelling video walkthrough of the website.
- Developed a database website to search for and return a range of dishes of various cuisines, with API integration.
- Programmed an interactive frontend for the website using React and HTML, with React Routers and styled components to build a competitive and enhanced UI.

Computer E-commerce Store | eBay.com

Aug 2019 – Sep 2022

- Operated an eBay e-commerce store specialising in refurbished desktops, over \$20,000 in revenue within 3 years
- Sold over 2,000 units consisting of RAM, CPU, GPU, and Desktops with a customer feedback rating of 98.5%

TECHNICAL SKILLS

Languages: Java, Python, SQL, C, JavaScript, HTML, R.

Frameworks: Springboot, Groovy, JUnit, psycopg2, PL/pgSQL, React, Node.js, Express.

Developer Tools: Jenkins, Homebrew, Git, Gradle, Vercel, Maple, PostgreSQL, RStudio, Visual Studio.

Hobbies and Interests: History & Religion, Boxing, Poetry.