

# Topan Budiman

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## Education

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**University of Calgary** | BSc in Software Engineering | GPA: 3.74/4.00

September 2020 - April 2025

- **Relevant Courses:** Data Structures and Algorithms, Object-Oriented Programming (OOP), Operating Systems, Computer Networks, Software Architecture, Database Management Systems (DBMS), Software Testing, Scalable Data Analytics

## Work Experience

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**Wave Financial** | Software Engineer Intern | Toronto, ON

May 2024 – August 2024

- Implemented a new transaction event pipeline with **Python** and **Kafka**, reducing processing latency by **50%**
- Migrated an existing application to its own microservice with **Terraform** and **AWS**, resulting in **zero** downtime for **23** devs
- Upgraded a company-wide task worker service to utilize multiple queues with **Django**, improving efficiency across **8** services and optimizing payment processing for **3.5M** users
- Introduced multi-decision support for transactions, streamlining the decision-making process and accelerating audits by **33%**

**Vena Solutions** | Software Engineer Intern | Toronto, ON

May 2023 – May 2024

- Developed and enhanced Vena's flagship full-stack SaaS financial planning and analysis tool, introducing new features and maintaining existing functionality using **React**, **TypeScript**, **Java Spring**, **S3** and **MySQL**
- Delivered a new reusable dynamic selection interface that improved load times by **95%** across **10** different components
- Migrated API tests from **Postman** to **Java** using **REST Assured**, improving unit tests by increasing overall code coverage by **27%** and enhancing the reliability of tests by reducing test flakiness by **13%**
- Refactored codebase with **20** components from **MaterialUI** to **StyledComponents** reducing dependency overhead by **19%**

**Ovintiv** | Software Engineer Intern | Calgary, AB

May 2022 - August 2022

- Designed and deployed an end-to-end web application dashboard using **React**, **JavaScript** and **Python**, optimizing internal asset management and business reporting, **saving up to 21 hours a week**
- Built a **REST API** using **FastAPI**, boosting query speeds by **60%** and enabling accurate trend forecasting by analyzing well data from an **Oracle Database**
- Enhanced reporting capabilities across multiple departments by migrating legacy systems, achieving time savings of **25%**
- Applied an **agile workflow** by participating in biweekly sprints, daily scrums and utilizing **Microsoft Azure DevOps** for issue tracking, improving overall team efficiency

## Leadership and Projects

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**Code the Change YYC** | Co-President | Calgary, AB

March 2022 – Present

- **Spearheaded a student-led initiative** focused on providing tech-related volunteer and learning opportunities for students
- **Managed** a team of **10** student executives to ensure all deliverables are completed on time and to a high standard
- **Organized** a Canada-wide hackathon with **500+** participants, backed by **10** industry sponsors, and a **\$17,000** prize pool

**University of Calgary** | Engineering Undergraduate Mentor | Calgary, AB

September 2021 – September 2024

- **Mentored, assisted, and networked** with first year engineering students to streamline their transition into university
- Provided 1-on-1 **counselling** to **10** students to help navigate the engineering curriculum, improving academic success by **16%**
- **Collaborated** with faculty members to develop mentoring program content receiving feedback of **91%** student satisfaction

**ConcertCopper** | Full Stack Developer | <https://github.com/topanb11/ConcertCopper>

- Developed an e-commerce ticket purchasing **React** web application for users to buy concert tickets
- Integrated authentication and payment processing that was handled via a **REST API** built with **FastAPI**
- Optimized **PostgreSQL** database management by formulating the underlying **SQL queries**, streamlining user transactions

## Skills

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**Languages:** Python, TypeScript, JavaScript, Java, C, C++, SQL, Swift, HTML, CSS,

**Frameworks:** Django, FastAPI, Node.js, Java Spring React, Express.js, Next.js, Mockito, Jest, JUnit

**Tools:** Amazon Web Services (AWS), OracleDB, PostgreSQL, MySQL, MongoDB, REST APIs, Linux, Git, Github, Docker, Jira, Kubernetes