

# JACOB GOOD

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## EDUCATION

### University Of Guelph

Software Engineering (Major) | Business Data Analytics (Minor)

May 2027

## TECHNICAL SKILLS

**Languages:** Python, C/C++, C#, JavaScript, TypeScript, Java, MySQL, PostgreSQL, Swift

**Web Technologies:** React, Node.js, Next.js, Express.js, HTML5, CSS3, Tailwind CSS, REST APIs

**Methodologies:** OOP, Agile/Scrum, Code Reviews, TDD, MVC, OAuth 2.0/JWT, Microservices Architecture, Caching

## EXPERIENCE

### Cloud Skill Boost | Instructor

Jan 2025 - Aug 2025

- Taught lessons on **GenAI** to achieve badges and complete *Google Cloud Computing Foundations Certificate*
- Promoted engagement of the **150+ enrolled students** through weekly office hours and Trivia mini games

## EXTRA CURRICULAR

### Google Developer Student Club (GDSC) | GDSC Lead, President

Sep 2023 - Aug 2025

- Led a team of **20** to organize over **15** workshops on Google Cloud technologies and career development
- Grown the GDSC community to **550+ active members** through consistent delivery of high quality workshops
- Improved GDSC website load speed by **250ms LCP** and **100ms FCP** by optimizing front end code and images
- **Volunteer for DevFest Waterloo** developing an AI text to voice features using **PaLM Intelligence**

### GDSC HACKS 2025: Build with AI | Lead Organizer

Nov 2024 - May 2025

- Led the planning and execution of a hackathon with **260** accepted hackers and **44** project submissions
- Coordinated with sponsors, including **Google, GitHub, and Major League Hacking**, to raise **\$10,000+ CAD**
- Developed and executed a marketing campaign that resulted in a **30%** registration increase year over year

## PROJECTS

### Vital Sense | JavaScript, React, Gemini, Twilio

- At **GDSC Hacks** we developed a smart steering wheel that detects the pulse to call for help during a heart attack
- Utilizing an **Arduino** with a pulse sensor kit, we used the lasers signal strength to determine the drivers BPM
- Integrated **Gemini API** to assess risk levels & set emergency thresholds for automatic calling/texting with **Twilio**

### Stock Overflow | JavaScript, React, Neurelo, NEAR

- At **HAWK Hacks**, created a stock sentiment platform leveraging **NEAR blockchain** for security and transparency
- Implemented **Neurelo APIs** for secure interactions and robust data handling with **AWS RDS**

### Classification Analysis | Python, Scikit-learn, Pandas, NumPy, Matplotlib

- Compared **Decision Trees, Random Forests, and SVM** algorithms on **iris and digits datasets**
- Applied **cross-validation** and hyperparameter tuning to optimize performance and ensure robust evaluation
- Generated **confusion matrices, ROC curves**, and accuracy metrics to analyze performance and model reliability

### Medicine Delivery | MySQL

- Developed a mock application that uses databases for users prescriptions, account information and pharmacies
- Created **Use Cases, Class diagrams, ERDs, CRC Index Cards, Two State diagrams** and **Sequence diagrams**

## RELEVANT COURSEWORK

- Software Design I, II and III
- Software System Development & Integration
- Software Reliability & Testing
- Object Oriented Programming
- Structure/Application of Microcomputers
- Web Design and Development
- Legacy Systems
- Operating Systems
- Computational Intelligence
- Intelligent Systems
- Analysis & Design of Computer Algorithms
- Database Systems & Concepts