

# Damandeep Singh Bawa

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## PROFESSIONAL PROFILE

- Demonstrated proficiency in Python.
- Self-taught C++, web technologies, basic cryptography (DES, AES, etc.) and Git.

## EDUCATION

**Bachelor of Software Engineering** (GPA: 8.15/9 or 3.87/4)  
University of Victoria, Victoria, British Columbia

Graduation: June 2023

## WORK EXPERIENCE

**DevOps Coop/Intern, Nuance Communications, Montreal** Jan 2020 - To Date

- Transferring Pulp and datacentre-based Docker images architecture to Azure Container Registry.
- Also automating deploying steps with Python and Gitlab pipelines.

**Software Developer Part-Time, Purple Rock Inc, Victoria** Sept 2019 - Jan 2019

- Developed Validation for the files generated from automated data extraction with Python.
- Further reduced need for human validation from all files to only few.

**Software Developer Coop/Intern, Purple Rock Inc, Victoria** May 2019 - Aug 2019

- Automated data extraction and transformation from mineral exploration reports with Python.
- Designed, implemented, tested and debugged a 3500+ lines software.

## PROJECTS

**Data Extraction System** (Python, Pandas, iPython, Pytest, BitBucket, CI/CD)

- Extracts data from online mineral exploration reports, transforms and saves it in suitable format.
- Reduced labour from manual search, extraction and tedious manipulation to quick verification.

**Timetable Builder** (Python, HTML, CSS, JavaScript(ES6), Django, SQLite3, REST API)

- Recommends suitable course sections in Text UI version. GUI allows you to fine-tune scheduling.
- Selected courses for last semester with its help.

**File Lock** (C++, AES, Algorithm Implementation)

- Encrypts or Decrypts a file with AES (CBC mode) using Shake-256 hash of given password.
- Stored personal data including some passwords securely.

**Autonomous Cable Connector** (C, Real-Time System)

- Connects cables from source to target autonomously, detecting through IR signals.
- Cleared first, third and bonus tests with flying colours. Second was partially completed.

## SKILLS

**Adept:** Python(3/2), HTML, CSS, Git, VisualCode, Slack

**Proficient:** C, C++, Java, JavaScript(ES6), jQuery, Django, GitLab, Linux(CentOS)

## ACHIEVEMENTS

- Top 75 for Communitex Code to Win – Preliminary and selected for finals in Waterloo.
- Won UVic Math Competition 2019 with cash prize.
- Top 10% in all CSC courses.
- Ranked 1437.5 out of 4,623 students in Putnam Math Competition 2018.