ZACHARY BYS

github.com/zacharybys • byslabs.com

EDUCATION

CONCORDIA UNIVERSITY   **MONTREAL**

B.Eng. in Software Engineering   *EXPECTED GRADUATION: MAY 2020*

▪ 3.99/4.30 GPA (Cumulative)
▪ Dean's list, member of the institute of Co-operative Education
▪ **Relevant Courses**: OOP, Data structures and algorithms, Web development, Operating systems, Software process

WORK EXPERIENCE

COVEO SOLUTIONS   **MONTREAL, QC**

SOFTWARE ENGINEERING INTERN   *MAY 2018 - AUGUST 2018*

▪ Developed a throttling system for document logs used by customers queried from Elasticsearch, which was running on an AWS Lambda and written in Java.
▪ Implemented a stream pusher for sending documents to the platform using our Push API, which sends them to RabbitMQ in batches, increasing performance and decreasing peak memory use.

EIDOS MONTREAL (SQUARE-ENIX GROUP)   **MONTREAL, QC**

CONTRACT GAMEPLAY PROGRAMMER   *SEPTEMBER 2017 – MAY 2018*

▪ Implemented over 30 new gameplay skills, 20 outfit effects and 3 unique temporary buffs for the AAA title Shadow of the Tomb Raider, with UI for designers to interact with them, using C++ and an internal game engine.
▪ Started as an intern in September and continued until May as a gameplay programmer.

ACADEMIC SOCIETIES

HACK CONCORDIA

VP TECH   *MAY 2018 - PRESENT*

▪ Team lead for the tech team of ConUHacks, Montreal's biggest hackathon, working on several projects such as the registration website, the society's website, and our tracking and organizing systems used during the event.

ENGINEERING GAMES CONCORDIA

SOFTWARE LEAD, MACHINE   *MAY 2018 - PRESENT*

▪ Team lead for the Concordia robot that will compete at the 2019 Engineering Games robotics competition.

PROJECTS

ADIDAS MOMENTS

▪ Built a snapchat-like mobile application for soccer games, where users can upload reactions to goals and events during the game, presented in a timeline. Built at FCBayern Hackdays in Munich.

AVALON

▪ Built a mobile app for refugees where refugee centers can track their changed information on a map.

AWARDS & DISTINCTIONS

McGill Robohacks - *1st place overall*   **MARCH 2018**
Conuhacks III – *2nd place overall and IBM prize, out of 664 participants*   **JANUARY 2018**
Blochacks (Refugee Center Hackathon) – *2nd place overall*   **NOVEMBER 2017**
Hydro-Québec Entrance Scholarship – *Awarded on academic merit*   **SEPTEMBER 2016**

TECHNICAL TRAINING & INTERESTS

Programming Languages: Java, C++, JavaScript (React.js, Node.js), Python, HTML/CSS, MySQL, MATLAB
Tools and Technologies: Android, AWS, Firebase, Git, Mercurial, Arduino, Docker, Visual Studio, MongoDB, Spring
Interests: Guitar player in a band, piano, hockey, biking, reading, tennis