

Luka Samac

Software Developer

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EDUCATION

Mechatronics Engineering & Management (B.Eng.Mgmt)

McMaster University

09/2015 - 04/2020

GPA: 3.91

WORK EXPERIENCE

Software Developer

P2Insight Inc.

04/2022 - Present

Tasks/Achievements

- Successfully kicked-off and managed a SaaS project (Amazon-like procurement system for IBM Maximo) involving a team of developers.
- Saved money by rapidly prototyping small scale applications using Laravel.
- Given architectural challenges (data storage and networking) I designed and developed a unique caching system to improve system performance.
- Improved P2Insight's understanding of development capacity by travelling to Europe to audit our off-shore development team.
- Attended multiple conferences in North America to conduct lead-generation.

Full Stack Developer

Avatara Software

04/2020 - 04/2022

Tasks/Achievements

- Wrote highly generalized PHP packages that can be redeployed in multiple applications adding to Avatara's IP and saving time/money via reuse of software.
- Had my hands in the full life cycle of professional software - lead generation, proposal, sale, development, piloting, and production I've worked on every piece.
- By listening and fully understanding client problems I delivered multiple PHP solutions that were not previously considered but truly appreciated.
- My eagerness to jump on new opportunities and take on additional work meant time sensitive projects were executed effectively. Pressure from clients was managed and their anxieties eased.

Full Stack Developer (freelance)

McMaster Baja Racing

07/2019 - 12/2019

Tasks/Achievements

- I developed a dual-purpose web application intended to be used as both a public website and a member-only expense report management system.
- Working alone meant juggling design, implementation, timeline, and the client ultimately leading to a huge growth experience.

Vice President of Finance

Ontario Engineering Competition 2019

11/2017 - 03/2019

Tasks/Achievements

- Prepared and Maintained a \$200,000 budget resulting in a \$27,000 surplus (13.5%).
- Created strategic optimizations for future competitions based on lessons learned.

Vice President Academic

McMaster Engineering Society

03/2017 - 03/2018

Tasks/Achievements

- Initiated the restructure of undergraduate math courses including the teaching structure of MATLAB benefiting all future McMaster engineering students.
- Improved leadership skills by advocating on behalf of 5,000 McMaster students.

TECHNICAL SKILLS

PHP (Laravel & Codeigniter) / MySQL

Java (Spring Boot) / Angular / Apache Lucene

NodeJS / Express / MongoDB

Bootstrap / jQuery

SOFT SKILLS

Communication (Written & Verbal)

Problem Analysis / Strategic Thinking

Leadership

Financial Budgeting

PROJECTS

Bitcoin Full Node Project (01/2022)

- Developed bash scripts to automatically connect the Ledger Live app to an Umbrel bitcoin full node
- This allows for complete control of bitcoin assets and zero dependency on third parties

Fully Autonomous IOT Home Garden (09/2019 - 04/2020)

- Capable of sustaining a single plant/herb for up to 4 weeks without intervention
- Data about plant health was captured and stored in a MongoDB database and displayed on a MERN web app

ACHIEVEMENTS

Golden Key Society (04/2016 - 04/2020)

An invitation based academic performance institution for students within the top 15% of their programs

Natural Science and Engineering Research Council (NSERC) Undergraduate Student Research Award (05/2017 - 08/2017)

Researching and developing an autonomous drone system intended to fly indoors without human intervention

LANGUAGES

English

Native or Bilingual Proficiency

Serbian

Native or Bilingual Proficiency