Lazu Horatiu

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EDUCATION

WILLIAM LYON MACKENZIE CI
MaCS (Math/CS) Program
Grad. June 2016| Toronto, CA

SKILLS

PROGRAMMING LANGUAGES
Experienced:
Java • Turing • Visual Basic • Visual C#

Familiar:
Objective-C • C • Assembly 8085

TECHNOLOGIES
Experienced:
exp4j • Unity Engine • VEX • NXT • Arduino • Git • Javadoc • hsa • LaTeX

Familiar:
Android/WP SDK • Linux • HTML • CSS

CERTIFICATIONS
- Cisco IT Essentials
- FIT Software Design and Development
- FIT Network Systems and Operations

INTERESTS/HOBBIES

VOLUNTEERING
- Youth Advisory Group (2012-Present)
- Math/CS Tutor (2011-Present)

HOBBIES
- Software Development
- Road Cycling

AWARDS / DISTINCTION
- SAGE Best Startup Award (2015)
- CCC Metro Toronto Champion (2014)
- Peer Tutoring Award (2014)
- Honour Roll (2010-2015)

LINKS

GitHub:// **MathBunny**
LinkedIn:// **HoratiuLazu**
YouTube:// **SoftwareEngenius**
Strava:// **@HoratiuLazu**
CodeForces:// **MathBunny**

REFERENCES

Available Upon Request

EXPERIENCE

COMPUTER PROGRAMMING CLUB | President
September 2013 - Present | William Lyon Mackenzie CI
- Coordinate and organize lessons for club with over 100 members
- Host weekly computing contests
- Created HTML/CSS website (tinyurl.com/mackenzie-cpt)
- Organized school-wide Hour of Code, over 140 participants

AUDIO / VISUALS TEAM | President
June 2014 – Present | William Lyon Mackenzie CI
- Coordinated, recruited and trained tech team for Mackenzie
- Setup for assemblies, school events and shows
- Designed HTML/CSS site to request tech, used by administration and clubs

ROBOTICS TEAM | President
September 2015 – Present | William Lyon Mackenzie CI
- Lead team to construct sumo-bots for MSEO (Middle School Science Olympics)
- Prepared event, promoted Robotics, Engineering and Programming

MATH CLUB | Executive
September 2015 - Present | William Lyon Mackenzie CI
- Helped create lessons, communications, made HTML/CSS website
- Website led to rise in contest participation rates, up to 100%

PROJECTS

KARNAUGH MAP SIMPLIFICATION SOFTWARE | Java
August 2015 – Present | GitHub Available
Graphically simplfies boolean algebra expressions. Currently experimenting using Quine–McCluskey technique and graph theory to optimize pairing.

NEWTON RAPHSON APPROXIMATION UTILITY | Java, exp4j
October 2015 – January 2016 | GitHub Available
Application that finds the root in any algebraic expression, using Newton's Approximation. Parses expressions using exp4j, input error-trapped through UI

SYNTHETIC DIVISION CALCULATOR | Java
Mar 2015 – April 2015 | GitHub Available
Application that can compute the division of any set of polynomial expressions. Shows full solution in JTable, sorts and formats expressions

BASILISK | Unity Engine, Javascript, C#
February 2013 – September 2014
3D snake game with various game-modes including local multiplayer up to 6 players. Mobile optimized (iOS, Android), creative menus, works on web

ADDITIONAL SIDE-PROJECTS

2015	Various Robots	Maze Traverse, Sumobots with NXT, VEX & Arduino
2014	Atomic Smasher	Particle simulation game made in Java (Team)
2014	Tower of Hanoi	Classic game of Tower of Hanoi made in Java
2014	Lyon's Den App 2.0	School iOS App for WL Mackenzie CI (Team)

COMPUTING CONTESTS

2015	Top-50 Nationally	Canadian Computing Competition (Senior)
2014	First Place	Canadian Computing Competition (Junior)