Igor Banin

A quick learning, independent and self-motivated programmer looking for an internship or entry-level opportunity in Software Engineering.

✉ banin.igor3@gmail.com   📱 425 – 372 – 8386   📍 4451 146th Ave SE, Bellevue, WA 98006

in https://www.linkedin.com/in/igor-banin-5543b211a/   ⊙ https://github.com/igorbanin

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🎓 Education

BS in Applied Physics   09/2016 – 06/2020
University of Washington, Seattle

Relevant Coursework: Computer Programming I, Computer Programming II, Web Programming, Intro to R, Data Structures and Algorithms, Scientific Computing, Introduction to Digital Circuits and Systems. Continuing into Machine Learning, Intro to Artificial Intelligence, Explicit Memory Management, Group Software Development.

Newport High School   09/2012 – 06/2016
Graduated with Honors
CCNA Certified   06/2015
CCNP Certified   06/2016

💼 Work Experience

Programming and Robotics Instructor   05/2017 – Present
STEP Computer Academy
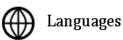
Taught classes of up to 12 students to program in Python and Objective C. Graded problem sets and exams. Programmed a camera sensor using Python, through Raspberry Pi. Designed robotics curriculums for Arduino and LEGO Mindstorms.

Math and English Tutor   03/2016 – 07/2016
Eye Level Tutoring

Taught classes of up to 8 students in Math and English. Administered exams, graded homework, and managed the front desk.

🌐 Languages   ❤ Interests

English – Full
Russian – Native

Weightlifting, Basketball, Travel, Arduino, RaspberryPi

⚙ Technical Skills

Java
Python
MATLAB
R
Arduino/Objective C
Networking Skills
GitHub/GitLab Collaboration
GitBash/Version Control
HTML
CSS

Other Knowledge: JavaScript, Verilog, TensorFlow

☑ Personal Projects

Time Laser(Arduino/Objective C)
I designed and programmed a device that displays the current time in 24hr time format on a glow in the dark sticker sheet using an ultraviolet laser.
https://github.com/IgorBanin/timelaser

Link Lives(Python)
DubHacks 2017, I programmed the distribution of a link shortening service that donates 100% of ad revenue to Nothing but Nets, using a Reddit bot through PRAW.

Search Engine(Java)
I implemented Term Frequency, Inverse Document Frequency and PageRank algorithms using self-made Hash Dictionary and HashSet in the creation of a search engine.

Maze Solver(Java)
I implemented Kruskal's minimum spanning tree finding algorithm to generate random, solvable mazes, and then implemented Dijkstra's to solve these mazes.

Mortality Rates(R)
I analyzed how mortality rates caused through alcohol abuse, drug abuse, self-harm, and interpersonal violence correlate with economic prosperity.
https://igorbanin.shinyapps.io/final_project/