Suhrab Kurbanov

Software Engineer & Developer / Online Portfolio: www.suhrabk.com

Olympic medalist, experienced **Software Engineer & Developer,** also a **Geneticist** with strong data structure, algorithm, and problem solving fundamentals. Enthusiastic team player with strong passion about building world class applications.

Professional Experience

2017-07 - present

Software Developer • Bioinformatics Programmer

North American University, Department of Computer Science

- Developed and designed Genomics and Proteomics Web Applications using the Ensemble REST API.
- Automated generation of input files for AutoDock Vina and visualization of these files with Python Molecular Viewer or PyMOL.
- Developed front-end with Object-Oriented JavaScript (OOP) and utilized React & Redux, with Babel, Gulp, Webpack, and Node.
- Designed and Maintained Relational Databases using PostgreSQL in Python Django.
- Involved in all aspects of web-based Software Development Life Cycle (SDLC).
- Followed the complete Agile methodology, participated in daily Scrum meetings and executed each Sprint deliverable.
- Tested, maintained and recommended software improvements to ensure strong functionality and performance.
- Assisted in Automation Testing with Java and Selenium WebDriver, whenever needed.

2015 - 2018

Software Engineer • Data Analyst

Antivlia LLC

- Developed web scraping programs using Python for collecting competitive data.
- Developed PC price predicting applications each year.
- Designed and developed online deal locater and catcher front-end applications.
- Designed and developed scripts that automates inventory purchasing, listing and selling.
- Optimized sourcing efficiency of products, resulting in annual revenue increase by 86% and significant cut of costs.

2011 - 2017

Graduate Research Assistant

Baylor College of Medicine, Department of Pediatrics

- The role of the CD1d-restricted Natural Killer T cells in the immune response to Salmonella-based recombinant cancer vaccines
- Development of a cancer vaccine using attenuated Salmonella and type III secretion system to deliver recombinant tumor-associated antigens

2009 - 2009

Intern • Research Assistant

Center for Infectious Medicine, Karolinska Institutet, Sweden

- Expression, Refolding and Crystallization of an Artificially Mutated MHC class I Molecule with a Truncated HIV Peptide
- Presented the results in symposium, Cambridge University, London, UK

- For project details please visit http://suhrabk.com

Personal Info

Phone

(832)-231-0107

Email

sir.suhrab@gmail.com

GitHub

https://github.com/suhrabjan

LinkedIn

www.linkedin.com/in/suhrab-kurbanov-95aa8046/

Programming Skills

Languages:

- JavaScript
- HTML
- Python
- CSS
- Java
- SQL

Tools, Frameworks, and Libraries:

- Git & GitHub
- TypeScript
- Django
- React
- Flask
- Redux
- Numpy
- Node
- Matplotlib
- SSH
- Pandas
- AWS

Testing Tools and Frameworks:

- Java Selenium
- JUnit
- Python Selenium
- POM
- Cucumber
- Jenkins
- TestNG
- JIRA

Latest Personal Projects

Genomics-Tools Web App

BulkImageResizer

Memory Game Web App

Snake Game Web App

Canvas Projects Web Apps

Refer to portfolio for details on these and other projects.

Education

2018 - present

North American University

Master of Science in Computer Science

Honors: Ranked in top 10 in Regional ICPC Programming / Algorithm Contest on November 10, 2018

2011 - 2017

Baylor College Of Medicine

Immunology & Microbiology Graduate Program

PhD Candidate with **Master's Degree**

2007 - 2011

Fatih University

Bachelor of Science in Biology with a minor in Bioengineering

GPA: 3.87 / 4.0

Honors: Ranked 1st in the department throughout 4 years

Personal Websites

http://SuhrabK.com

Personal portfolio.

https://genomics-tools-app.herokuapp.com/

Developer, Writer, Administrator

Tools used in Genomics. Blog created to continuously develop interesting bioinformatics projects, share ideas, and more.

Scientific Publications

2017 "Development of an Effective Cancer Vaccine Platform Using Attenuated Salmonella Typhi". Xin Xu, Michael S Wood, **Suhrab Kurbanov**, James E Galen, and Leonid S. Metelitsa. Molecular Therapy, 2017 May, 25(5):359-359

2016 "Development of an Effective Cancer Vaccine Platform Using Attenuated Salmonella To Deliver Recombinant Tumor-Associated Antigens." Xin Xu, Michael S Wood, **Suhrab Kurbanov**, Linjie Guo, Xiuhua Gao, James E Galen, and Leonid S. Metelitsa. Molecular Therapy, 2016 May Volume: 24 / Pages: S74-S75.

2014 "Development of an Effective Cancer Vaccine Using Attenuated Salmonella and Type III Secretion System to Deliver Recombinant Tumor-Associated Antigens." Xin Xu, Wael Abdel Halim Hegazy, Linjie Guo, Xiuhua Gao, Amy N. Courtney, **Suhrab Kurbanov**, Daofeng Liu, Gengwen Tian, Edwin R. Manuel, Don J. Diamond, Michael Hensel, and Leonid S. Metelitsa. Cancer Research, 2014 Nov 1;74(21):6260-70.

2013 "Potent Therapeutic Activity of a Novel Salmonella-based Cancer Vaccine. " Xin Xu, Wael Hegazy, Xiuhua Gao, Linjie Guo, Amy Courtney, **Suhrab Kurbanov**, Micheal Hensel, and Leonid S. Metelitsa. Journal of Immunology, 2013, 190, 45.5

References

References are available upon request

- For project details please visit http://suhrabk.com

Awards and Achievements

2018-11

Ranked in **top 10** in Regional ICPC Programming / Algorithm Contest on November 10, 2018

2007

Won **Bronze Medal** in International Biology Olympiad, Saskatoon, Canada

2006

Honorable Mention in International Biology Olympiad, Rio Cuarto, Argentina

Gold and Silver medals in National Biology Olympiad of Turkmenistan

Activities and Hobbies

Actively competing in algorithm contests such as:

hackerrank: Problem solving website. Ranked in top 1% out of 1221929 contestants

leetcode: Problem solving website.

rosalind.info: collection of bioinformatics problems