

FARZON NOSIRI

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With a combination of innovative technologies and industry best-practices, I have creatively solved complex problems and delivered elegant and high-quality solutions as a software engineer. I have used state of the art technologies and tools to develop and deploy various projects ranging from simple web development to enterprise grade applications. Coding is not only a skill, but a passion that motivates me to teach and mentor aspiring developers.

WORK EXPERIENCE

Bootcamp Lead @ JUNIOR CODE

FEB 2023 – PRESENT

Khujand, Tajikistan

- Taught Python programming language, Algorithms and Data structures from beginner to advanced levels.
- +40% students received internships and job offers from well-known IT companies.
- **Technologies:** Python, Typescript, Java, Algorithms and Data Structures

Team Lead - Sr. Software Engineer @ NEXUS TECHNOLOGIES, LLC

SEP 2018 – PRESENT

Khujand, Tajikistan

- Redesigned and rearchitected the entire product infrastructure using Distributed Actors to support growth of the company to scale from B2C to B2B business model.
- Implemented a better algorithm for contact synchronization improving runtime speed by 500%.
- Designed snowflake like user IDs for sharding accounts to improve performance and distribute workload across servers.
- Implemented document recognition service to read machine readable zones of the passports and Identity Documents that improved customer experience and simplified application process.
- Developed a file server using NodeJS, S3 buckets and minIO to store users' files across the platform.
- Successfully led team of 10 backend and frontend developers.
- **Technologies:** Swift, TypeScript, NodeJS, Python, NATS, PostgreSQL, InfluxDB, Neo4J, ScyllaDB, MongoDB, Vapor, React, Angular, Machine Learning, OpenCV, Tesseract, S3, minIO

Software Developer Converted to FTE Nexus Technologies @ CONSULTANT

OCT 2017 – SEP 2018

Khujand, Tajikistan

- Designed and implemented the backend architecture of a CRM solution for small and medium businesses, delivering a scalable and user-friendly product at DURUD startup.
- Developed a comprehensive backend system for a leading Cardio Clinic in Khujand, enhancing the efficiency of managing patient appointments, prescriptions, and diagnostic results, leading to improved doctor-patient interactions and healthcare delivery.
- Designed UI/UX of mobile banking for bank "Arvand", using their available APIs, and created 122 screens for a user-friendly and functional app.
- Developed and designed two websites for bank IMON International, and OSIMI cultural center.
- Assisted Nexus Technologies with source code documentation, demonstrating technical writing skills and attention to detail, which led to a full-time employment offer.
- **Technologies:** Java, PHP, MySQL, Adobe XD, Adobe Photoshop, Adobe Illustrator, Markdown, WordPress

Cybersecurity Analyst and Ethical Hacker @ BANK "IMON INTERNATIONAL"

AUG 2014 – OCT 2017

Khujand, Tajikistan

- Designed, installed, and configured a corporate VPN network (IPSec, IKEV2, OpenVPN) using Cisco and MikroTik devices, connecting about 180 branches and offices nationwide, ensuring secure and reliable data transmission.
- Installed and configured a corporate email server using Postfix, Dovecot, MySQL, and a backup server, ensuring reliable and secure communication for the organization.
- Performed forensics of a hacking incident that resulted in the theft of 20K USD from the bank, and provided information that helped the police in tracking down the hackers.
- **Technologies:** Kali Linux, OpenVPN, Cisco, IPSec, MikroTik, Vega, Bash etc.

Program Manager and Tester @ SENSOTRONICA Ltd.

NOV 2013 – MAY 2014

Minsk, Belarus

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- Planned and managed multiple projects using agile methodology, delivering high-quality results on time and within budget.
- Facilitated meetings and communication with German partners, strengthening the relationship and expanding the market share.
- Conducted lab tests for in-house developed sensor devices and Raspberry Pi + GPIO devices for solar panels, ensuring accuracy and reliability.
- Created documentation for the sensors and user manuals for the application software, enhancing user experience and satisfaction.
- Developed production guidelines for manual production of specific parts of the sensor, improving quality and consistency.
- **Technologies:** Raspberry PI + GPIO, NodeJS

Research Assistant @ SCILIFELAB AND KTH

DEC 2012 – FEB 2013

Stockholm, Sweden

- Conducted performance evaluation and testing on five software tools: BWA, Bowtie, Agile, Stampy, and Mosaik, using 20GB of genome data.
- Applied split-reads as a sequence-based method to identify structural variants in genome data.
- Measured the ability of the software tools to handle split reads by mapping them to the reference genome.
- Improved the speed and performance of the test data generation tool by rewriting the software from Java to C++.
- **Technologies:** Java, C++, BWA, Bowtie, Agile, Stampy, and Mosaik, FASTA

Research Assistant @ KAROLINSKA INSTITUTET

DEC 2012 – FEB 2013

Stockholm, Sweden

- Collaborated with Ingemar Ernberg's group at Karolinska Institutet on an Epstein-Barr virus project, analyzing gene expressions from DNA Microarray and identifying associated signaling pathways.
- **Technologies:** DNA Microarray data, Java, BioJava, Mosaik, UniProt, FASTA, FunCoup

Software Developer @ IT-CENTER OF KBTUT

NOV 2007 – MAY 2008

Khujand Tajikistan

- Developed and designed software and database for automating the elective courses in KBTUT.
- **Technologies:** PHP, JavaScript, MySQL, HTML, CSS

EDUCATION

Master Of Science, KUNGLIGA TEKNISKA HÖGSKOLAN / KTH

FEB 2013

Stockholm, Sweden

MS in Computational and Systems Biology.

Master Thesis: The master thesis investigated the signaling pathways for gene regulation in EBV (Epstein-Barr Virus) infection and OCT-2, a transcription factor. Two types of cell-lines involved in EBV infection were studied, and the TFs that regulate OCT-2 expression were predicted, checked, and analyzed. Other proteins and genes that may affect the two cell-lines were also explored and annotated, highlighting the TF candidates for further research.

Bachelor of Science, with Honors, TECHNOLOGICAL UNIVERSITY OF TAJIKISTAN, KHUJAND BRANCH

JULY 2009

Khujand, Tajikistan

BS in Information systems in economy.

Diploma Thesis: I created a software for Statistical Analysis of the Quality of examination questions and tested it with over 50,000 real data samples. The software is now used by teachers and employees, and it improved examination quality.