

Aamir Syed

✉ aamir@syed.com 📞 +14692699368 in LinkedIn 🌐 GitHub

Current role

Systems Engineer at Shardus and Senior Software Engineer at Unblocked Inc.

Experience

Blockchain, Cloud Computing, Fintech, Consulting, Business Intelligence, Data Analysis, Biotechnology, Robotics, Compute...

Technologies

AWS, Docker, TypeScript, Python, Linux, Node.js, C++, Git, React, Kubernetes, Vue.js, REST API, SQL, JavaScript, D3.js, P...

My biggest achievement is...

Co-founding Shardus, building the first-ever linearly scaling decentralized ledger, making distributed ledgers faster and practical for real-world use.

Work experience

Systems Engineer, Shardus 🚀

Jan 2018 - Present (7y 3m)

Scalable, peer-to-peer, decentralized app framework.
Blockchain · Cloud Computing

AWS Docker TypeScript Python Linux Node.js C++ Git

- Led architecture and implementation of peer-to-peer layer for transaction processing on distributed ledger achieving linear scaling (5000 TPS across 1000 nodes).
- Designed and implemented auto-scaling infrastructure on AWS for dynamic resource allocation and monitoring to assess distributed ledger functionality.
- Established automation systems using Python and Bash for deployment, monitoring, and maintenance processes.
- Developed cross-platform build and deployment pipelines utilizing Docker and CI/CD tools.
- Implemented secure P2P networking protocols with advanced cryptography and NAT traversal techniques.
- Created system monitoring and analytics tools for large-scale distributed networks.
- Contributed to machine learning projects enhancing network optimization and anomaly detection.

Senior Software Engineer, Unblocked Inc. 🌈

Jul 2017 - Present (7y 9m)

Fintech and Blockchain consulting.
Fintech · Consulting · Blockchain

React AWS Docker Kubernetes Python Node.js Vue.js REST API

- Designed LiquidityBot, an automated trading system using Node.js to process real-time market data.
- Engineered machine learning algorithms for price prediction and risk management.
- Established secure distributed systems for data transmission and storage in collaboration with infrastructure teams to ensure system resilience.
- Built automated testing and deployment pipelines for a microservices architecture.
- Developed Ethereum Smart Contract based rewards program web app for local restaurant.

Technical Consultant, Armeta Solutions

Apr 2016 - Jul 2017 (1y 3m)

Boutique data analytics firm for large scale retailers.
Consulting · Business Intelligence · Data Analysis

SQL JavaScript D3.js Power BI Powershell Ember

- Utilized strong interpersonal skills to manage client relationships and deliver scalable business intelligence solutions under pressure.
- Designed and executed enterprise data migration strategies, collaborating across technical and business teams.
- Developed interactive web applications using modern web technologies to visualize business intelligence data.
- Created T-SQL scripts for SQL Server database migrations.
- Analyzed legacy systems and implemented unified data models for a multi-million-dollar retail company.

Research Engineer, UT Dallas Center for Systems Biology

Feb 2015 - May 2016 (1y 3m)

Genome sequencing and genomics research.
Biotechnology

Python Java Bash Node.js Ruby Perl

- Developed machine learning-based analysis pipeline for genomic data using Python and SAMtools.
- Created visualization tools for complex biological data structures.
- Implemented distributed computing solutions for large-scale data processing.
- Applied machine learning techniques to analyze chromosomal conformation patterns.

Software Engineer, Connectcloud

Jun 2013 - Sep 2013 (3m)

Automated cloud infrastructure product.
Cloud Computing

Python Bash Linux Puppet VMware vSphere

- Implemented cloud deployment automation systems and infrastructure management tools.
- Set up IT infrastructure for a start-up company.
- Developed custom tools to automate the migration of Virtual Machines.

Software Development Intern, Hanson Robokind

Jun 2011 - Sep 2011 (3m)

Research company focused on developing life-like robotics.
Robotics · Computer Vision

Java OpenGL Maven

- Assisted in debugging computer vision features for facial recognition technology.
- Managed the submission of company contributions to the Apache Hadoop project.
- Created documentation for custom middle-ware utilized in facial recognition software.

Education

The University of Texas at Dallas

Bachelor of Science in Biology, Minor in Computer Science

University of Texas at Dallas

Bachelors of Science with Minor (3.5) Biology, Computer Science

Aug 2012 - May 2016 (3y 9m)

Snippets

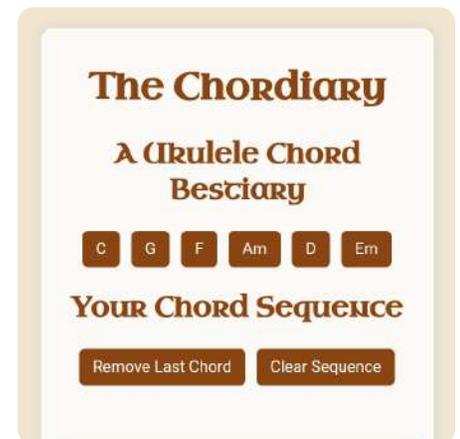
Sprite Sheet to JSON Tool @ github.com

While building a 2D sprite based web game I realized no free tool existed to parse sprite sheets into JSON objects describing animations and frames, so I built one!



The Chordairy @ github.com

A website consisting of a collection of descriptions of real and fabulous chords, often including a moral or allegorical interpretation of each chord's behavior.



Contributed to the tar-fs NPM library @ github.com

While using the tar-fs library for the Shardus project, I contributed a simple change that allowed tar-fs to be robust in more conditions, while maintaining its expected behavior.

Built the first Linearly Scaling decentralized distributed ledger

@ www.youtube.com

I was a founding member of the Shardus team that built and demonstrated the first ever example of linear scaling in a decentralized distributed ledger.



More about me

My biggest achievement is...

Co-founding Shardus, building the first-ever linearly scaling decentralized ledger, making distributed ledgers faster and practical for real-world use.

At work I'm best at...

Deep diving into details to crack tricky problems that stump others. My mantra, "It's not magic," keeps me grounded when systems behave unpredictably.

Languages

English, Arabic, Hindi, Urdu

My favourite technology is...

Anything open-source because it removes the profit motive, letting people build amazing things simply because they're worth creating.

Interests

Sports (skiing, motorcycling, Muay Thai, BJJ), Music (ukulele, guitar, keyboard, production)