

Abtin Bateni

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Software Engineer

Experienced developer and competitive programmer, naturally curious and fast learner, ranked 56th worldwide at ACM-ICPC and placed top 7 nationally for 3 consecutive years, seeking a software engineering position to utilize my knowledge of distributed systems and algorithms.

EDUCATION

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- University of California, Santa Barbara** 09/2019 - 03/2022
M.Sc. in Computer Science, Distributed Systems Specialization, GPA: 3.67 Santa Barbara, CA
- Relevant Coursework: Adv. Distributed Systems (A), Scalable Internet Services (A+), Cloud Computing (A)
- University of Tehran** 09/2015 - 07/2019
B.Sc. in Software Engineering, GPA: 3.57 Tehran, Iran
- **Honors Thesis:** 4x Faster Data Structure Design for Handling Stock Exchange Transaction Matching (in Java)
 - TAed for 8 courses, including Advance Programming, Data Structures, Design Algorithms, Internet Engineering and Engineering Probability and Statistics, designed 10 assignments in C++/Python/React.js, helped 400+ students

WORK EXPERIENCE

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- Software Developer Intern** 06/2021 - 09/2021
Google, Spanner team - Distributed SQL Database Management and Storage — ([website](#), [linkedin](#)) Santa Barbara, CA
- Developed a C++ library to investigate complex scenarios where query changes resulted in query-plan modification
 - Implemented a key feature to visualize regions where differing/changing queries result in a similar query-plan
 - Identified 9 unanticipated query-plan changes and one query scenario where an unexpected plan was chosen
 - Technologies used: Google Spanner, Protocol Buffers, C++, Linux
- Software Developer** 06/2018 - 04/2019
HerminaTech - Property & Hospitality Management Software — ([website](#), [linkedin](#)) Tehran, Iran
- Implemented 30+ new front-end features, ranging from purchase handling, and rating services to financials
 - Refactored 20k+ lines of code, upgraded manual system APIs and integrated the new design within the system
 - Led 3 sprints as the Scrum Master of 5-10 multi-disciplinary engineers, meeting 90% of the pre-defined milestones
 - Technologies used: React.js, Spring, Java, Gitlab CI, Linux

SELECTED PROJECTS

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- All on Cloud 9** ([github](#)) | *Blockchain, NATS, Kubernetes, Docker, Go, AWS, Ubuntu, Git* Spring 2020
- Developed a blockchain ledger to connect distrusting parties without exposing critical user/transaction information
 - Implemented four consensus protocols to efficiently use system resources, solved 3 different encompassing failure modes
- Distributed Sandbox** ([github](#)) | *Go, Travis CI, Express.js, Node.js, Ubuntu, Git* Winter 2020
- Implemented and tested Paxos, distributed dictionary, and Lamport lock protocol and simulated a blockchain
 - Setup a separate server for automatic bookkeeping of node addresses and CI/CD to smooth the development
- NAOFS** ([github](#)) | *C, libfuse, Travis CI, Coveralls, Ubuntu, Git* Winter 2020
- Designed, implemented, and tested an entire file system to work on the linux kernel using FUSE

VOLUNTEER EXPERIENCE

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- Event Manager at the 4th Panjere Conference on Engineering Specializations** 02/2018 - 05/2018
University of Tehran, ACM Student Chapter Tehran, Iran
- Mentored sophomores and provided career development advice in collaboration with industry C-Suite executives
 - Led 4 teams of 3-6 volunteers to coordinate speakers, plan inter-talk activities and create an engaging environment

AWARDS

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- ACM-ICPC World Finals**, Ranked 56th Internationally 05/2017
Competed in the ICPC, the most established multi-stage programming contest for university students worldwide. Utilized effective teamwork skills to solve programming problems in data structures and algorithms.

TECHNICAL SKILLS

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- **General:** Object-oriented design, CI/CD, Testing
 - **Languages:** C/C++, JavaScript, Java, Python, Go
 - **Frameworks:** React.js, Node.js, Express.js
 - **Tools:** Git, Docker, AWS, TravisCI, GitLab CI, Linux