

Darijani Ali

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"Simplicity is deceptively complicated."

Personal Profile

Half mathematician, half computer scientist who has the mathematical knowledge to understand the underlying work of an existing software tool and the programming skill to bend it to his will. And that is pretty much it.

Education

RWTH Aachen University

Aachen, Germany

MSc

Sharif University of Technology

Tehran, Iran

BSc

Work Experience

RWTH Aachen University(Digital Additive Production (DAP))

Aachen, Germany

Research Assistant

- Symbolic Computation
- Graph Based Visualization
- Computer Graphics
- **Technical Skills:** Linux, Zsh, SSH, Python, Graphviz, C++, OpenGL, LaTeX
- **Soft Skills:** googling, speed reading, teamwork, time management, Communication, presentation skills.

Selected Courses Passed/Audited

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Skills

Operating Systems	UNIX, Linux, POSIX, macOS
Computing Clusters	Secure Shell(SSH), X Window System, Public-key cryptography, Slurm Workload Manager, Module System
Compiled Languages	C, C++
Scripting Languages	Bash, Zsh, Python
Build Systems	GNU Make, CMake
Versioning Systems/Platforms	Git, GitHub, GitLab
Markup Languages	HTML, XML, Markdown, YAML, AsciiDoc
Static Site Generators	Jekyll
Numerical Libraries	NumPy, Pandas, SciPy, LAPACK, Eigen
Machine/Deep Learning Frameworks	scikit-learn, TensorFlow
Visualization Libraries/Packages	Matplotlib, Gnuplot, OpenGL, Graphviz
Math	Extended Knowledge in Deterministic and Stochastic Math
Soft Skills	googling, subliminal pattern recognition, speed reading

Languages

English TOEFL 107, GRE General 321, Multiple RWTH Language Center Certificates, and ...

Achievements

Full Scholarship, Ontario Tech University Admission Process

Canada

University Projects

Partial Differential Equations

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RWTH Aachen University

- Project 1: Finite Element Method in 1D
- Project 2: Finite Element Method in 2D
- Project 3: Finite Volume Method
- Project 4: Riemann Problem for Systems
- **Technical Skills:** C++, Gnuplot, LaTeX, Linux, GNU Make, Zsh
- **Soft Skills:** googling, speed-reading, documentation , report writing, presentation, teamwork, time management

Fast Iterative Solvers

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RWTH Aachen University

- Project 1: Krylov Space Methods
- Project 2: Multigrid
- Project 3: Eigenvalue Computations
- **Technical Skills:** C++, Gnuplot, LaTeX, Linux, GNU Make, Zsh
- **Soft Skills:** googling, speed-reading, documentation , report writing, presentation, time management

Introduction to High-Performance Computing

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RWTH Aachen University

- Project 1: RWTH Cluster Environment
- Project 2: Processor and Memory
- Project 3: Memory Access, Performance Analysis and Code Balance
- Project 4: Parallel Computers and Networks
- Project 5: OpenMP
- Project 6: MPI
- Project 7: GPU
- **Technical Skills:** Linux, Zsh, rsync, SSH, GNU Make, SLURM, Gnuplot
- **Soft Skills:** googling, speed-reading, documentation , report writing, presentation, time management

Interests

Sports badminton, jump rope

“The only way to learn mathematics is to do mathematics.”

Paul Halmos