

# STEFAN SU

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## EDUCATION

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### Technical University of Munich

Oct '15 - Present

- Acquired B.Sc. in Informatics at the Department of Informatics.
- First year M.Sc. candidate in Informatics at the Department of Informatics (expected graduation year: 2020).
- Anticip. focus areas: Machine Learning & Data Analysis, Distributed Systems, Software Engineering.

### Technical University of Munich

Oct '12 - Sept '15

- Acquired B.Sc. in Chemical Engineering at the Department of Chemistry.
- Thesis topic: Researched, tested and assessed the wettability of different catalyst carrier materials to maximize the yield of a Dodecahydro-N-ethylcarbazole dehydrogenation reaction for sustainable hydrogen transport and regeneration.

### Technical University of Munich

Oct '15 - Sept '18

- Scientific and technical branch (A-Level Subjects: German, English, Mathematics, Chemistry, Geography).

## EXPERIENCE

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### Soley GmbH

Jun '16 - May '17

*Working Student in Software Development*

*Munich, Germany*

- Covered 80% of the GrGen.NET graph transformation language syntax by defining the grammar of the ANTLR parser generator.
- Enhanced productivity of over 50 client users by rebuilding the code autocompletion feature within the core product.
- Freed up QA's testing workload of manually triggering code completion by introducing an additional test layer.

### Infineon Technologies AG

Mar '15 - Aug '15

*Working Student*

*Neubiberg, Germany*

- Improved the efficiency of a team of 10 engineers by implementing and launching a Matlab app for automated analysis and interpretation of results on electro-static discharge stress tests on microcircuits.

### Technische Universität München

Jul '13 - Oct '13

*Student Research Assistant*

*Munich, Germany*

- Supported a Ph.D. student at the Bioseparation Engineering Group with batch synthesis and processing of magnetite nanoparticles and performed contact angle measurements with a tensiometer based on the Washburn capillary rise technique.

### futureblech AG

Aug '12

*Intern*

*Hohenbrunn, Germany*

- Assisted with cutting and non-cutting manufacturing and worked in the quality assurance section.

## PROJECTS

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### Correlating YouTube QoE with Content Delivery Paths (Bachelor's Thesis)

Mar '18 - Jul '18

- Connected video streaming performance metrics with content delivery path information by enhancing and analyzing year-long longitudinal active measurement datasets.
- Extending the studies in the scope of a Guided Research with the objective to contribute to the research community by publishing significant results.

### Distributed Hash Table Module (P2PSEC Project Work)

Apr '18 - Jul '18

- Implemented a peer-to-peer storage module based on the distributed hash table protocol "Chord" using Rust.

- Designed module architecture, protocol message formats and implemented request handling for peers.

### **La Calculadora Malvada (Android Security Lab)**

Jan '18 - Feb '18

- Reverse-engineered and piggybacked an Android calculator app from Google Play Store by injecting a hook and payload code that collects the user's contacts and sends them to a remote server.

### **Randomized Kinodynamic Planning (Autonomous Driving Seminar)**

May '17 - Aug '17

- Designed and implemented a motion planning algorithm for autonomous vehicles in Python based on a Single-RRT algorithm to demonstrate a simulation framework developed by the IN6 research group.

### **Verleihtool (Student Council Project Work)**

Mar '17 - Apr '17

- Implemented and released a full-stack web app using Django to enable management and rental of equipment owned by the student council for access and usage across the campus and all student bodies.

## **EXTRACURRICULAR ACTIVITIES**

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### **TUM: Departmental Student Council of MPI**

Jul '16 - Oct '18

*Head of SET division*

*Munich, Germany*

- Supervising the organization of the freshmen orientation days of the faculty at the beginning of each term.

### **TUM Department of Informatics**

Aug '16 - Apr '17

*MINGA Student Mentor*

*Garching b. München, Germany*

- Welcomed international degree and exchange students and provided support and advice with living and studying in Munich.
- Organized and coordinated a one-day hike around Schliersee for all participants.

### **TUM: Junge Akademie - Buddies for Refugees Program**

Sept '16 - Apr '17

*Buddy for Program Attendee*

*Munich, Germany*

- Managed to achieve acknowledgement of high school diploma of former Mathematics student refugee from Syria meeting the formal requirements for an undergraduate degree at an officially recognized university in Germany.

## **INTERESTS**

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Hiking, Yoga, Cookery & Cuisine, Reading (latest: Born a Crime: Stories from a South African Childhood by Trevor Noah), Music (Piano, Guitar, Vocals)