

# JAN MENSCH | RESUME



- › **Status:** Graduate Student Business and Computer Science, Developer
- › **Interests:** Database Engines, Cloud Infrastructure
- › **Top skills:** C++, Python, Golang, Kubernetes, Docker, AWS, L<sup>A</sup>T<sub>E</sub>X
- › **Tools:** Bash, GDB, CMake, Git, Helm, VS Code

## EDUCATION

### **Master's Thesis** Hasso Plattner Institute (HPI), Chair of Prof. Plattner Dec. '19 - now

- › Implemented a novel query execution engine based on Function as a Service (C++)
- › System properties: Elastic compute layer, processes data in-situ, uses stateless workers
- › Outperforms AWS Redshift in terms of cost, if queries are infrequent ( $\leq 50$  queries/hour)
- › Shows the potential to outperform state-of-the-art database systems in terms of query latency

### **Master in Business and Computer Science** University of Potsdam and HPI Oct. '17 - now

- › Focused on computer science, especially database systems
- › Presumed average grade: 1.8

### **Bachelor's Thesis** Fraunhofer Institute for Digital Media Technology Apr. '17 - Sept. '17

- › Designed and implemented an application for data anonymization
- › Grade: 1.0

### **Bachelor in Business and Computer Science** TU Ilmenau Oct. '14 - Sept. '17

- › Learned about computer science, business, and law
- › Involved with voluntary work at student consulting Ilmenau and Wohnzimmerkultur
- › Average grade: 2.6

### **A Levels** Grotefend Gymnasium Hann. Münden June '13

- › Average grade: 2.5

Contact me for more **information** and **letters of recommendation**.

## EXPERIENCE

### **Developer - Working Student** HPI, Chair of Prof. Plattner, Potsdam, Germany Dec. '19 - now

- › Measure the performance of cloud infrastructure (C++, Python)
- › Implement Database Systems (C++)

### **Developer - Working Student** SAP Innovation Center, Potsdam, Germany Mar. '18 - Sept. '19

- › Develop applications, collect and analyze logging/metric data (Kubernetes, Docker)
- › Implement a query parser (Golang)

### **Developer - Intern** CrabxLab, Nanjing, China Aug. '16 - Oct. '16

- › Implement communication for Internet of Things devices (C#)
- › Implement a web application (Vue.JS)

### **Developer - Working Student** ICOM Automation, Ilmenau, Germany Feb. '16 - Mar. '17

- › Develop an algorithm for automated component balancing systems (C#)
- › Develop a frontend for a windows desktop application (C#)

### **Voluntary Work** SPORTS for Exceptional Athletes, San Diego, USA Sept. '13 - July '14

- › Create a mobile-first website, assist with fundraisers and events