Thomas Breier

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Work Experience

Software Engineer | Founder.Center (pre-seed, later seed-stage startup) | Palo Alto, CA   **09/2014 – Current**
- One of two first full-timers who built the entire portfolio of product prototypes from scratch (along with interns) using Ruby on Rails, MySQL, Redis, Resque. These prototypes led to the acquisition of several enterprise company contracts and a successful company seed round in 2017
- Focus on UI/UX design, core algorithms, and database optimization
- Designed and implemented scalable algorithm which creates a knowledge graph out of millions of data points from different sources, forming the backbone of all subsequent prototypes
- Built video-streaming application with focus on scalability and usability which allowed a customer to replace a traditional offline event with an online-only experience with better metrics
- Managed customers and sales pipeline in addition to engineering work, leading to improved customer relationships and closing additional strategic customers
- Selected, mentored, and managed interns in engineering and marketing, whose work results turned into significant additions to the company
- Co-authored published Stanford research paper:
  "Founder Center: Enabling Access to Collective Social Capital." (ACM CSCW 2017)

Software Engineer, Modeling Representative | Roche (TUM iOS Praktikum)   **10/2015 – 01/2016**
- Created working prototype of iOS app for diabetes patients connecting with Apple Watch, HealthKit, and Bluetooth blood glucose readers; used by Roche to kick off development of app used by their customers
- Responsible for (UML) modeling, data storage, and HealthKit integration

Undergrad. Research Assistant | UIUC Dept. of Civil & Environmental Eng.   **03/2014 – 05/2014**
- Experimented with different approaches to predict the location of potential taxi passengers in New York City based on real-time and historical information (dataset contained 700 million entries of taxi operations)
- Co-authored successful grant proposal for further funding of the project

Education

Informatics B.Sc. | Technische Universität München (TUM)   **10/2011 – 03/2016**
- Completed with high distinction within top 3% of students (GPA 1.1, best: 1.0)
- Thesis: "MatchMaker: Framework for Three-Party Recommender Systems"
- TA for Discrete Structures and Fundamentals of Algorithms and Data Structures
- Minor in Psychology from LMU München with a focus on Human-Computer Interaction
- Received four different scholarships awarded to exceptional students

University of Illinois at Urbana-Champaign (UIUC) | Year Abroad   **08/2013 – 05/2014**
Completed senior and graduate classes with GPA of 4.0: CS473 Fundamental Algorithms,
CS579 Complexity Theory, CS421 Programming Languages and Compilers, and CS440 Artificial Intelligence

Skills

Technical
- Proficient: Ruby on Rails, (My)SQL
- Knowledgeable: Java, JavaScript (jQuery), HTML/CSS, Git, UML, Bash
- Experience: Android & iOS Development, Python, Functional Programming, Swift, C

Other
- Customer development, customer onboarding & management, sales pipeline management, sales calls
- Languages: German (native language), English (fluent), French (intermediate)

Personal Projects

Echolot Music | Web Application (Ruby on Rails) | http://www.echolot-music.com/   **2017**
Clean, responsive UI to give users access to their most listened to tracks on Spotify (via Spotify API)

Munich Transport | Android Application (Java)   **2011**
Reverse-engineered local transport agency's API to create own interface for train departures

Aglu.de | Website (HTML, JavaScript)   **2004**
Built and hosted my own website at the age of 11