

# David Nathanael Schumann

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## » Education

<b>Hasso Plattner Institute</b> (Universität Potsdam), Germany Master of Science, IT-Systems Engineering ( <b>Grade 1.5</b> )	Spring 2018
<b>Hasso Plattner Institute</b> (Universität Potsdam), Germany Bachelor of Science, IT-Systems Engineering ( <b>Grade 1.4</b> )	Summer 2014
<b>Clarkson University</b> , Potsdam, NY Exchange Semester	Fall 2013
<b>Grade 1.0 in the “Abitur”</b> (examination qualifying for university entry) Best possible result (Top 1% of Germany’s students)	2011
<b>8th Grade in HaNissui</b>	2005/06

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## » Professional Experience

**Mindance GmbH**, Berlin, Germany  
*Co-Founder / CTO, 06/2017 - Now*

- One of three founding directors. Main responsibilities: Anything tech: Building first prototypes. Assembling and leading the product development teams. Creating and optimizing business and development processes. Quality Management. Key strategy development with investors and co-founders. Raising and managing investment funds of over 1 million Euros.
- Developed several apps (cordova / react native) and backend from scratch.
  - Using AWS S3 as storage backend, heroku for django app hosting and shippable, jenkins, AWS device farm + own server for automated CI builds.
- Lead and managed a development team of +8 people.
- Long, medium and short term planning for multiple software projects, managing requirements, resources and deadlines.
- Overseeing user research. Extracting, identifying and incorporating important market and user feedback into the product.
- Developed and handled business processes of a 10-15 people startup working in the B2B e-health sector.
- Raised two investment rounds of over 7 figures.

**Algorithm Engineering**, Potsdam, Germany  
*Tutor, 04/2016 - 04/2017*

- Prepared and held lectures. Corrected homework and exams.

**Mobile Motion GmbH (Dubsmash App)**, Berlin, Germany  
*Backend Engineer, 01/2015 - 09/2015*

- *Rapid agile development with daily deployments. (App with over 100 million downloads)*
- *Working in a small team of three mobile and one backend developer. Taking the lead on several big projects.*
- Solving large scale problems:
  - Sending 40 million push notifications as fast as possible.

- o Reducing initial loading time of the app from up to a minute to a few seconds.
  - o Implemented trending algorithms to provide relevant content to the user using live analysis of several million data points per hour.
- **Services and Frameworks used:** AWS Services (mainly SNS, SQS, S3, Kinesis), BigQuery, Celery, Dataflow, Django, Docker, Elasticsearch, Heroku, Memcache, RabbitMQ, Redis, Tableau

**Ninu GbR**, Munich, Germany

*Developer and Core Team Member, 06/2014 - 12/2014*

- Developed an e-health app prototype to secure 100k investment offer.
- Claimed award for entrepreneurship by the Foundation of German Business (SDW).

**Getemed AG, Berlin**, Germany

*iOS-development Intern, 02/2014 - 06/2014*

- Developed an iOS-application for data transfer and communication in the health sector.

**Enterprise Platform and Integration Concepts**, Potsdam, Germany

*Research Assistant, 05/2012 - 01/2014*

- Researched and implemented highly parallelized algorithms to speed up genome sequencing at the High-performance In-memory Genome Project (HIG).
- Worked with a 25 TB SAP HANA in-memory database ("future soc lab").
- Backend: Ruby on Rails, Python, SQL, R

**Experience Network**, Potsdam, Germany (experience-network.org)

*Programming Intern, 02/2012 - 04/2012*

- First startup experience: One of two developers, key strategy development.
- Maintained and implemented new features for a large existing Django project.

**Children's Hospital**, Boston, Massachusetts, USA

*Research Assistant, 08/2011 - 12/2011*

- Designed and implemented surveys used for a publication.
- Helped doctors with repetitive work by writing scripts to automate their work.

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## »» University Projects / Awards

- Won best game of the year in a Smalltalk game programming lecture. (2012)
- Built a chat bot within 24h aimed at helping blind people. It receives pictures and responds to questions about them using google vision API (won second place at HPI Hack 2017 Hackathon)
- Fixed an old broken coil-gun like piece of custom hardware using an oscilloscope, faulty circuit schematics and a soldering iron. Interfaced control code on Arduino over 25 pin parallel port with it.
- Further C++ experience:
  - Using OpenCL for image rendering on different GPUs and microprocessors
  - Using MPI and OpenMP for parallel code execution, perf for remote monitoring and profiling

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## »» Further Qualifications

### **Programming Languages:**

Proficient: Python, Javascript, Java, C/C++, SQL, Smalltalk

Intermediate: Objective-C, Ruby, PHP, Prolog, Haskell, Swift, R

Other Technologies: Amazon AWS Services, BigQuery, Boto, Celery, Django, Docker, Elasticsearch, Git, HANA, Haystack, PostgreSQL, RabbitMQ, Redis, REST-ful APIs, Scikit-learn, Tableau

**Languages:**

Fluent in: German, English, Hebrew

Basic knowledge in: Mandarin Chinese, Latin, Ancient Greek

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» **Activities**

**Sports:** Competitive Ballroom/Latin Dance, Rugby, Judo

**Musical Instruments:** Piano, Guitar, Saxophone

**Voluntary work:**

- Voluntary worker at a drug addiction centre.
- School paramedic training and service