Denbeigh Stevens
Software Engineer

Professional Experience

Discord (April 2021 - Present) Senior Software Engineer (Tools)

Samsara (December 2019 - March 2021) Senior Software Engineer (Developer Experience)

Dropbox (April 2019 - November 2019) Site Reliability Engineer (Data Platform)
Deployment, operations, tooling and general automation - various bespoke and off-the-shelf software
- Generalist, aiming for medium-term embedding into teams - improving general service reliability and joining on-call rotation.

Dropbox (April 2018 - April 2019) Site Reliability Engineer (Storage Core)
Deployment, operations, and forward-thinking reliability work - Bespoke storage software
- Long-term embedded SRE on Storage team.
- Improving observability, alerting and tooling of low-level storage-related services
- Participating in on-call rotation and incident management
- Designing and carrying out redundancy testing exercises
- Automating/writing tooling for deployment, operations and hardware lifecycle management

Dropbox (June 2017 - March 2018): Software Engineer/Reliability Engineer (Desktop Delivery)
Deployment and Continuous Integration systems - Dropbox Desktop Client
- Building/shipping of the Dropbox desktop client, covering everything from code leaving developer machines to final product arriving on customer machines.
- Building CI environment for developers
- Virtualising compilation/testing on Windows/Mac/Linux
- Operating/using VMWare VSphere for CI, supporting VMWare Fusion for devs.
- Building infrastructure to provide client updates to 100M daily active users.
- Automating and writing tooling for building/testing Dropbox desktop application.

Uber Technologies (December 2016 - April 2017): Software Engineer/Reliability Engineer (BI)
Deployment Automation, Reliability Engineering and ongoing support for data scientists - Looker, Shiny, etc.
- Solely responsible for automating deployment of 3rd party data science apps. Fully automated deployment process of Looker, reduced 3 hour upgrade downtime into 20 minutes
- Hands-on work supporting data scientists; investigating and debugging to resolve issues in production for data scientists' apps, and creative ETL pipelines
- On-call work ensuring our services are healthy, manually intervening as needed
- Working with data scientists to help them use our infrastructure, and improve the reliability of their processes
- Reverse-engineering applications, and making infrastructure improvements to improve their scalability.

Uber Technologies (September 2016 - January 2017): Software Engineer (BI)
Backend and Frontend Application Development - Data querying platform and applications
- Writing integration software for heterogenous in-house data sources
- Developing new features and reliability improvements on existing data querying platform
- Building and improving frontend components (in React) for internal business intelligence web tools

Uber Technologies (November 2015 - September 2016): Software Engineer (Search Platform)

Backend and Frontend Application Development, ETL pipeline design - in-house search and cohorting tool

- Decreased latency of certain key search criteria from 24 hours to < 5 minutes for critical business tools
- Improving scalability of distributed batch processing tool - increased throughput >15x
- Adding new backend integrations with various heterogeneous data stores in the company
- On-call work and user support
- Building new frontend components (in React) to facilitate new search constraints

Freelancer.com (July 2013 - September 2015): Software Engineer (Messaging)

Backend and Frontend Application Development - Messaging application

- Rebuilding legacy on-page chat application (in AngularJS)
- Adding video chat capability with WebRTC
- Maintaining, improving, and increasing test coverage of backend Python service
- Writing training materials and onboarding new developers, making them productive in AngularJS

Salesperson/Computer technician (part-time): Harvey Norman Moore Park (April 2009 - August 2013)

Technical Skills

- Designing scalable microservice applications, primarily in Python and Go.
- Strongest abilities in Python, Go, Javascript, SQL, bash scripting, significant experience in Java.
- Proficient in using Linux, practical understanding of internals
- Designing maintainable APIs; primarily Thrift and HTTP
- Building with MySQL (some Postgres), Cassandra, ElasticSearch, Redis, HIVE, in-house data stores
- Learning new languages, patterns and frameworks on the job

Professional Qualities

- Experience working in small teams with Agile-like workflow
- Experience learning new languages, frameworks and software packages on-the-job.
- Experience planning projects out at 3-6 month scope
- Strong communicator, regularly work with technical and non-technical staff and users.
- Diligent in on-call responsibility

Education

University of Sydney, 2012 - June 2015

Bachelor of Computer Science and Technology (Computer Science)

- Undergraduate High Honour Roll 2015
- Mentor, Introduction to Programming 2013
- Tutor, National Computer Science School (NCSS) Challenge 2012

St Andrew's Cathedral School, Sydney, 2008 - 2011

Higher School Certificate

- Mathematics
- English (Advanced)
- Software Design and Development
- Physics
- Chemistry

Personal Interests

- Discovering and sharing music online
- Taking and editing photos
- Programming side projects (https://github.com/denbeigh2000)