

# Michael E Schober

Software Engineer

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## Experience

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### 2017-02 - present **Sr. Software Engineer**

*Migo [getmigo.com](http://getmigo.com)*

- Design, implement, and support a scalable backend.
- Develop procedures for identifying endpoints of private APIs.
- Ship complex microservice architecture to AWS Managed services.
- Integrate with CI/CD build, release, and canary pipeline for rollout.
- Instrument the system with metrics and alarms for operational support.
- Build authentication solution for secure user accounts to access Migo resources.
- Solve for geospatial requests for real-time, low-latency product updates.
- Participate in candidate interview loops and other aspects of hiring.

### 2016-11 - 2017-02 **Software Developer II**

*Egencia [egencia.com](http://egencia.com)*

- Wrote a spring wrapper around Amazon's Kinesis client.
- Integrated the client in dequeue-service to write to the cloud.
- Built a streaming topology using Kinesis, Lambda, Firehose, S3.
- Worked on new architecture for streaming solutions in Egencia's BI suite.

### 2016-01 - 2016-11 **Software Developer II**

*Hotwire [hotwire.com](http://hotwire.com)*

- Member of the core Pricing Service to leverage machine learning models to be used as a feedback loop in Hotwire's opaque hotel pricing strategies.
- Revamped the deployment of docker containers using Chef.
- Test, implement, release, and support new features in the Pricing Service and Pricing Engine.

### 2015-02 - 2016-01 **Software Developer II**

*Expedia Inc. [expedia.com](http://expedia.com)*

- Acting as a liaison to help onboard business unit tech teams to Expedia's EDW Platform.
- Trained with onsite Teradata experts to become a lead for the platform when migrating partner teams from DB2 to Teradata.
- Designed and implemented a dynamic CI/CD Promotion pipeline in Jenkins and Python to improve integration velocity for partner teams.
- Ramping the orgs understanding and uses for Chef provisioning.
- Embedding with partner tech teams to consult and help write POCs using EDW Platform solutions.

- Writing scripts in shell to simplify onboarding of external teams to real-time & batch Big Data platform.

## 2013-02 - 2015-02 **Software Developer I**

*Expedia Inc. [expedia.com](http://expedia.com)*

- Migrated existing Cruise Ship ETL from DB2 data mart to Hadoop data mart. Scheduling done with BMC Control-M.
- Mentoring post-grad intern in developing web portal to configure DB2 to Hadoop syncing jobs for consumption by other business units within Expedia.
- Built a parallel ETL workflow to load all core hotel bookings into Hadoop data mart using Hive and Control-M. Help in auditing framework to verify new load against classic DB2 data mart.
- Developing features for the clickstream Omniture ftp daily load.
- Sanitizing and normalizing more than 50 million click events per day using multistage ETL workflow with Informatica for scheduling, shell for scripting, and hive for Big Data transformations.

## 2011-09 - 2013-01 **Data Warehouse Engineer**

*Commission Junction [cj.com](http://cj.com)*

- Contributing to the companies data warehouse platform.
- Aggregating 50 million records per month into star schema reporting backend.
- Creating a new testing harness written in Groovy and focusing on simple data-centric interfaces for concise transformation testing.
- Designing the aggregates to support partner team building external web reporting portal for advertisers in the network.
- Hadoop POC for new data warehouse future.
- Built a 6-node hadoop cluster out of decommissioned laptops.
- Taught a hands-on pig scripting tutorial for the floor (with the laptop cluster).

## 2011-03 - 2011-09 **Software Engineer**

*Commission Junction [cj.com](http://cj.com)*

- Wrote an internal app for url redirection using Java Play Framework.
- Contributed to a company wide effort to reduce the release cycle from monthly to hourly deployments.
- Working as a member of a team of six to enhance, release, and upgrade core pieces of the payment platform.

## Education

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2005-09 - 2010-12 **Eastern Washington University (EWU), Major Electrical Engineering, Minor Computer Science, Bachelors of Science**

## Skills

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**Languages:** NodeJS/ES6, Java, Python, Groovy, Kotlin

**Tools:** Git, Postman, IntelliJ, Eclipse, VisualCode, SQL Studio

**Scripting:** Shell, Sed, Awk, Grep, Vim, Pipes

**Design Patterns:** MVC, OO, Microservices, The Twelve-Factor App

**Databases:** DynamoDB, DB2, Teradata, MSSQL, MongoDB

**Big Data:** Hive, Flume, HDFS, HBase, Map/Reduce

**Linux:** Ubuntu, CentOS

**AWS:** Lambda, DynamoDB, S3, CloudFront, CloudWatch, EC2/VPC/ALB, Route53

**Infrastructure:** Docker, ECS, Chef, Vagrant

## Additional Activities

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### 2015-01 - 2017-01 **Bellevue Coder Dojo**

*CoderDojo coderdojo.com*

- Founded a franchise of CoderDojo at Expedia.
- Recruited 25+ UW Tacoma students from the Husky programming club to volunteer.
- Taught classes for ages 5-18 for 2 years.
- Created and managed all the curriculum, scheduling, and teachers for other classes.
- Grew the organization from the first cohort of 20 students to over a hundred students per session.
- Built a lasting organization that continues to teach cohorts of students today.
- Classes
  - Scratch programming (ages 5-8)
  - Hour of code (ages 8-10)
  - Python Animation: <https://bellcodo.github.io/creating-cliq/> (ages 10-15)
  - Freecodecamp: (ages 14 and up)
- Class materials
  - <https://github.com/bellcodo/hello-dojouniverse/wiki>
  - <https://github.com/bellcodo/activity-picker/wiki>
  - <https://github.com/bellcodo/building-a-webapp/wiki>
  - <https://github.com/bellcodo/refactored-octo-robot/wiki>
  - <https://github.com/bellcodo/ideal-octo-spoon/wiki>

### 2016 **Adafruit Arduino Lab**

*GirlsWhoCode girlswhocode.com, materials compliments of adafruit.com*

- Designed and delivered an arduino lab for a cohort of girls who code interns at Expedia.
- The project was to encode text into binary and binary into IR pulses from an arduino sender, then receive them with another arduino which decodes IR pulses into binary and back into text.
- <https://github.com/mschober/girls-who-code-2016/tree/master/arduino>

### 2015 - 2016 **Scavenger Hunt**

*GirlsWhoCode girlswhocode.com*

2016:

- 30 high school students divided into teams of 4 rotating stations by solving puzzles that decode to their next station.
- Wrote and delivered a puzzle that worked like the old ELIZA text based response program, but it was themed after the Hal 9000.
- <https://github.com/mschober/girls-who-code-2016/tree/master/src>

2015:

- Wrote and delivered a puzzle which blinked and beeped morse code from an arduino wired into a child's police car toy.
- [https://github.com/mschober/girls-who-code-2015/blob/master/sketch\\_morse\\_final.ino](https://github.com/mschober/girls-who-code-2015/blob/master/sketch_morse_final.ino)

### 2015 - 2016 **Expedia Code Academy**

*Programmers teaching professionals to code.*

- Founder and creator of a teaching organization designed for professionals to learn programming.
- Lead a global effort with the help of other founding teammates to grow the teaching organization.
- Expanded in the second year from Bellevue to London, San Francisco, and Sydney.
- Winter 2015: Taught a session for Adv. Python: Objects to 10+ students.
- Winter 2015: Taught a session for Beginning Python to 10+ students.
- Material Generated for teaching:
  - Material for 201: <https://github.com/eca-201-expedia/eca201/wiki>
  - Material for 101: <https://github.com/eca-py101-expedia/ecapy101>
- Promotional video - <https://www.youtube.com/watch?v=RHfNhmvf1ko>

## References

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[1]

### Scott Taylor

*Nordstrom, Sr. Principal Engineer*

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