

Michael D. Leonhard

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Work Experience

RestBackup.com, Founder, June 2010 – Present

- Designed and implemented a backup web service for desktop and mobile applications. Created app for managing backup accounts. Java on Linux, deployed on EC2, S3, DynamoDB, ELB, SQS, and SES, and CloudFront. Functional tests in Python.
- Created backup software for Windows using Python. Backup script language supports MS SQL Server, MS Access and other file-based databases. Wrote Windows service to upload in the background. Inno Setup installer scripted in Pascal. Automated tests on 12 flavors of Windows.
- Sales via cold calling and direct mail. Tech support.

Amazon.com, Software Development Engineer, Sep 2007 – Apr 2010

I worked at Amazon Web Services on SimpleDB, a hosted NoSQL database service. I was fortunate to work in many different capacities on the team:

Core Product Development:

- Owned the SimpleDB subsystem that gathers and reports customer usage for billing purposes
- Wrote, tested, and deployed new versions to keep up with SimpleDB architecture changes
- Set up the subsystems in Amazon's Northern California, Ireland, and Singapore data centers
- Wrote and maintained operations documentation

Testing:

- Wrote functional tests for new API features, increased test coverage, added regression tests
- Wrote and maintained the network partition test that stresses the distributed architecture of SimpleDB. With this test, we made SimpleDB tolerate all kinds of network and server problems.

Operations Automation:

- Joined SimpleDB as a new graduate, developed and maintained the team's operations tools
- Wrote and maintained command-line tools, web-based tools, monitors, alarms, automated processes, documentation, and procedures

Opportunity International, MIS Assistant (Part-time), Mar 2001 – Aug 2007

Education

Bachelor of Science in Computer Science, University of Illinois at Chicago, Dec 2006

Published Research Paper: A Comparative Study of Three Random Password Generators. IEEE EIT 2007.

National Taiwan Normal University, Mandarin Training Center, Taipei, Aug 2010 – Nov 2011

Studied Mandarin Chinese full-time.

Chiba University, Japan, Exchange Student, Oct 2004 – July 2005

Studied Japanese language and culture. Awarded Freeman Asia Scholarship and J-PAC stipend.