

# Michael D. Leonhard

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## Work Experience

### **Rest Backup LLC, Founder, June 2010 – Present**

- Designed and implemented a backup web service for desktop and mobile applications. Built a web 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. Website [www.restbackup.com](https://www.restbackup.com).

### **Amazon Web Services, SimpleDB, Software Development Engineer, Sep 2007 – Apr 2010**

SimpleDB is a hosted database service. I was fortunate to work in various 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**

Managed servers and networks, maintained the website, and supported onsite and offsite users.

## 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.