

# MICHAEL IRANI

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## Education

Binghamton University, State University of New York, 2005  
Bachelor of Science, computer science: graduated with honors  
Bachelor of Arts, music: graduated cum laude  
GPA: 3.7  
Dean's list every semester

## Computer Skills

Languages: Python, JavaScript, Ruby, C, C++, Java, Perl, PHP  
Frameworks/toolkits: Django, PyQT, jQuery, Ruby on Rails, Wicket  
Database Vendors: PostgreSQL, MySQL, Oracle, MSSQL  
Version Control: git, Mercurial, Subversion, CVS  
Web servers: nginx, Apache  
Operating Systems: Linux, Apple, Windows

## Experience

### Software Developer

Freelance (November 2010-Present)

- GradeBuddy – gradebuddy.com
  - Developed consumer-facing e-commerce site from scratch; both front- and back-end
  - Payments handled with Authorize.Net
  - Interactions with Facebook API
  - Development stack: Python, Django, jQuery, PostgreSQL, nginx
- Pat Bates – patbates.com
  - Handled all design and development efforts for photo gallery of a talent agency
  - Development stack: Python, Django, jQuery, PostgreSQL, nginx
- Slate Studio – slatestudio.com
  - Worked on various enterprise-level sites in Ruby on Rails using Agile development practices
- Strata Labs
  - Developer on consumer-facing site for medical insurance companies in Python and Django

### Software Engineer

Digital Domain (March 2009-October 2010)

*Production studio; 65+ movie credits include Titanic and The Curious Case of Benjamin Button*

- Development stack: Python, PyQT, PostgreSQL, MySQL, Mako, Pyro, SQLAlchemy, Django
- Wrote code to asynchronously synchronize two databases written in Python using Pyro to handle cross-site messaging
- Scripted GUI tools for digital artists and management in Python using PyQT
- Wrote scripts to manipulate 3<sup>rd</sup> party tools and databases
- Recommended and implemented system infrastructure changes
- Maintained legacy software in Python and Perl, including testing and documentation

### Software Engineer/Entrepreneur

Pavilion Software (February 2008-November 2008)

*Maker of software to organize inventory, maintain Web presence, and manage orders for diamond dealers*

- Development stack: Django, Python, PostgreSQL, jQuery, and Apache
- Developed and designed, from scratch, a tool catered to manage diamond dealers' businesses
- Designed image and brand message, and followed through with marketing effort

### **Console Engineer**

Knoa Software Inc. (October 2006-November 2007)

*Developer of a solution to monitor how end-users utilize business applications*

- Lead Engineer on rewrite of consumer-facing Web tool implemented in Java using Wicket
  - Assembled requirements; talked to customers and colleagues
  - Experimented with popular Web framework options to find most suitable choice for project (Ruby on Rails, Prado, CakePHP, Smarty, Tapestry, Wicket)
- Lead Engineer on legacy version of consumer-facing product written in Java and JSP, making use of JFreeChart
- Implemented a consumer-facing reservation system in Ruby on Rails
  - Synchronized with Active Directory using LDAP to handle user activation
  - Communicated with multiple databases
- Part of candidate screening effort: interviewed and helped decide which candidates to hire
- Revamped month-long training program for new hires, shortening course length by eliminating redundancies while increasing by threefold what trainees learn

### **Associate Software Engineer**

Lockheed Martin Corporation (August 2005-August 2006)

*Global security company that employs about 146,000 people worldwide*

- Wrote C code to analyze OCR images
- Invented algorithm to detect ID tags from UV images (patent under review)
- Wrote Reed-Solomon Error Correcting toolkit for use in barcode encoding
- Edited / added code to a 600,000-plus line software package used throughout the United States Postal Service (USPS) system
- Developed GUI prototype in .NET on tight deadline that attracted client to invest in robust solution

### **Programming Competition Winner**

SHPE Eastern Technical Career Conference (October 2004)

- Created an online game with realtime messaging, integrating PHP, MySQL and Java

### **Web site Programming**

Binghamton University's newspaper (October 2002-November 2004)

*The on-campus twice weekly student-run newspaper*

- Boosted number of visitors more than twenty times to 35,000 hits weekly
- Managed the design, programming and editing of online publication

### **Honors**

#### **Chancellor's Award for Student Excellence**

Each year, only one graduate at Binghamton's 1,600-student engineering school receives this statewide honor

### **Activities**

**Carnegie Recital Hall** - performed Rachmaninov's Prelude in C# Minor at Carnegie Recital Hall after successful competition

**CAMI Hall** (Columbia Artists Music Inc.) - performed twice in musical competitions and numerous other times at the request of piano teacher

### **Hobbies**

Skiing, jazz, math, and photography