Timothy O'Brien

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Education

Stanford University   **Stanford, California**
MA/MST, Masters of Music Science and Technology   *2012–Current*

Two year masters program at the *Center for Computer Research in Music and Acoustics*. Studies include computer music composition, human-computer interaction design, and digital signal processing. Research focuses on complex system simulation for computer improvisation and real-time generative algorithmic composition. (Current GPA: 4.3/4.3)

University of Virginia   **Charlottesville, Virginia**
BS, Physics   *2002–2006*

Distinguished major in physics, concentration in computational physics, and minor in anthropology. Studies included C/C++ programming for analysis and simulation of physical systems. Senior thesis examining the dynamics of shear transformation zones in amorphous solids via numerical simulation. Dean's List: Spring 2003, Fall 2003, Spring 2004, Spring 2005.

Work Experience

J.P. Morgan Chase   **New York, New York**
Equity Research Assistant   *Nov. 2006–Aug. 2012*

○ Assisted three Executive Directors, one Vice President, and three Associates who covered real estate investment trusts (REITs), brokers, asset managers, and exchanges.
○ Updated, published, and distributed weekly valuation comparison databases for the aforementioned sectors.
○ Compiled various data for research publications.
○ Acted as the first point of contact for clients and company management of all levels, including CEOs and CFOs.
○ Managed the team's logistical needs (including coordinating corporate access events and industry conferences).

Technology Consultant   *Sep. 2006–Nov. 2006*

○ Facilitated the consolidation of all J.P. Morgan Equity Research Analysts' contact lists into a global database system using Microsoft Access and Excel and utilizing knowledge of SQL and Visual Basic.
○ Liaised with analysts and database architects to ensure a smooth rollout of the contact management product.

Musical Experience

Bandleader   **New York, New York**
suiGeneris, Limehead   *Summers 2003–2005, 2006–2012*

Composed, performed, and recorded original musical works as leader of a progressive, alternative metal group at numerous venues throughout New York City. U.S. finalist in the international Emergenza battle of the bands competition. Selected venues: Webster Hall, The Bitter End, Fat Baby, Don Hill's, CBGB.

Guitarist   **New York, New York**
Um, Who's RVZ?   *2010–2011*

Lead guitarist for Brooklyn and Manhattan-based indie rock band *Um*; sole guitarist for *Who's RVZ?*, performing deep cuts from Van Halen, Led Zeppelin, and The Who at venues in Manhattan and Queens, New York.

Skills

Programming: Python, C, C++, Processing, Arduino
DSP: SuperCollider, PureData, ChucK, Matlab, Octave, JACK
Systems: Linux, Bash, Emacs, Vim, Git, Shell Scripting
Applications: GIMP, Frescobaldi, Audacity, Ardour
Web Technologies: HTML, CSS

Standardized Testing

GRE General Test: *Sep. 8, 2011*
○ 170 Verbal (99th percentile)
○ 168 Quantitative (96th percentile)
○ 4.5 Analytical Writing (72nd percentile)