roshan **krishnan**

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EDUCATION

Bachelor of Science in Music Engineering and Computer Science, May 2016
University of Miami, Coral Gables, FL
Cumulative G.P.A.: 3.89

COURSES

**Operating Systems • iOS Audio Programming • Software Engineering • Artificial Intelligence
Data Mining • Audio Signal Processing I/II/III • Computer Networks • Microprocessors
Linear Algebra • Discrete Math • Systems Programming • Computer Organization/Architecture
Data Structures • Object-Oriented Programming • Intro to Music Recording • Digital Audio Production**

EXPERIENCE

Bose Corporation, Framingham/Brighton, MA: *Mobile Software Engineer, June 2016 – Present*
- Work within a large team to architect and implement features in the Bose Music mobile application
- Resolve defects and optimize existing features in the Bose mobile codebase
- Present and participate in internal conferences and educational sessions

Bose Corporation, Framingham, MA: *Audio Software Engineering Intern, May – August 2015*
- Developed a Chrome application in JavaScript for low-latency UDP audio stream receipt and playback
- Resolved audio buffering and synchronization issues using the Web Audio API
- Wrote server-side JavaScript and shell scripts to control real-time Linux audio processes

GN Resound, Glenview, IL: *Software Engineering Intern, June – August 2014*
- Developed a simulation of a wireless audio coding and beamforming system in MATLAB, and recommended design parameters for implementation
- Designed unit tests and set up a continuous integration server for regression testing
- Worked with a team to define software requirements, coordinate version control, and schedule releases

FORE Center, Univ. of Miami, Coral Gables, FL: *Student Research Assistant, September 2013 – May 2014*
- Performed interdisciplinary research in audio and biomedical engineering under Professor Chris Bennett
- Helped code an iOS application for use by physicians treating recovering amputees

WVUM 90.5 FM, Coral Gables, FL: *Webmaster, April 2013 – May 2016*
- Developed and implemented a new website for WVUM, the campus radio station
- Perform web maintenance and troubleshooting while participating in day-to-day station leadership

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**LANGUAGES/
SOFTWARE**

**Swift • C++ • Java • C • Objective-C • MATLAB • JavaScript • HTML5/CSS3 • Python • Unix
Visual Studio • Eclipse • Git • Subversion • Circuit Maker • Logic Pro • Microsoft Office**

PROJECTS

- Developed a web application that performs pitch correction on the user's voice using the Web Audio API, presented October 2015 at the Audio Engineering Society Convention, New York, NY
- Developed several audio DSP plug-ins in C++ that emulate the effects of popular guitar effects pedals
- Developed a proximity-based instrumental wah effect for iOS, presented October 2014 at the Audio Engineering Society Convention, Los Angeles, CA
- Developed an internet radio streaming iOS application for WVUM 90.5, UM's student radio station

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**AWARDS/
HONORS**

- Provost's Honor Roll and Dean's List (Fall 2012 – Fall 2013, Fall 2014 – Spring 2016)
- Four-year recurring University and Gables Scholarships

ACTIVITIES

- Music Staff Member and DJ, WVUM 90.5 Radio Station
- Student Member, Audio Engineering Society