

# Tejas Deshpande

+1 (484) 483 - 5273 | [tejasd@outlook.com](mailto:tejasd@outlook.com) | [tejasd.co](http://tejasd.co)

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## Education

### **University of Cincinnati, Class of 2016/17 (Co-op program)**

B.S. in Computer Science with a minor in Mathematics

Dean's List Fall 2012, Spring 2013, Summer 2014, Spring 2015

UC Global Scholarship recipient

**GPA: 3.75/4.00**

## Technical Skills

**Significant past experience in:** Java, Node.js, Objective-C, Swift, C++

## Work Experience

May 2015-Aug 2015    **Software Engineering Co-op, Intuit, Mountain View, CA (Current)**

Aug 2014-Dec 2014    **Software Engineering Co-op, Intuit, Mountain View, CA**

- Worked on the scrum team developing the iOS (Universal) companion app for Intuit Online Payroll
- Improved code coverage and solved multi-threading issues in a monolithic 6 year old codebase
- Improved reusability between iPhone and iPad GUI components using auto-layout, size classes and developing well tested shared components
- Successfully delivered critical product updates on tight deadlines with a very small team

Jan 2014-May 2014    **Software Engineering Co-op, Intuit, Mountain View, CA**

- Worked on the scrum team which was modernizing the legacy Intuit Online Payroll backend into a more flexible REST API (Worked with Java, Jersey, Hibernate, Spring)
- As a member of a small team of co-ops, developed and launched a Google Moderator like tool using Node.js, and Backbone.js in our whitespace time. This enabled our VP to start a weekly FYI (~TGIF) meeting
- Participate in a week long intensive Design for Delight workshop for co-ops, interviewing customers and rapidly developing MVPs

Aug 2013-Apr 2015    **Teaching Assistant, University of Cincinnati, Cincinnati, OH**

- Assist in teaching and grading for Engineering Models using MATLAB
- Co-author a conference paper exploring effective teaching methods (see publications)

## Relevant Awards, Honors and Projects

**ACM East Central North America Regional Programming Contest, 2012, 2013**

- Placed 33<sup>rd</sup> out of 171 teams at ACM ECNA RPC 2012

- Placed 38<sup>th</sup> out of 78 teams at ACM ECNA RPC 2013

### **International Olympiad in Informatics Training Camp, India**

- Invited to IOI Training Camp, India, 2012
- Among 23 out of more than 8000 students who participated in the selection rounds
- Contest involved problems in the application of Dynamic Programming, Graph Theory and other data structures and algorithms

### **Research – Revisiting the Mars Surveyor Challenge**

- Explore the application of Genetic Algorithms to solve the problem of area search using rovers
- Compare results with team member who is using Rule based decision making for rovers

### **Co-curricular leadership experience**

#### **Midwest Dhamaka, Annual dance contest, Tech Chair, 2014, 2015**

- Worked with the previous tech chair (who was also the co-founder) to streamline and document the position so anyone coming in after me could easily fill in
- As an outsider, successfully worked with and integrated myself into a close knit core team that was traditionally formed through high school networks
- Successfully executed the adoption of new technologies like Square to reduce ticketing costs and increase student outreach
- Prototyped a Twilio based solution to reduce live audience polling and judging costs

### **Publications**

#### **Conference Presentations**

Stubblebine, A., **Deshpande, T.**, & Kivelevitch, E. (2013). Revisiting the Mars Surveyor Challenge. University of Cincinnati, Cincinnati. Presented at University of Cincinnati, Fall 2013

Stubblebine, A., Higgins, S., **Deshpande, T.**, & Kivelevitch, E. A Cascading Fuzzy Logic Controller to the Mars Surveyor Competition. Presented at AIAA SciTech 2015, Kissimmee, FL

Flenar, K., Ross, J. A., Okel, T., **Deshpande, T. A.**, Bucks, G. W., & Ossman, K. A. Effective Educational Methods for Teaching Assistants in a First-Year Engineering MATLAB Course. Presented at 121st Annual ASEE Annual Conference and Exposition, 2014, Indianapolis, IN

### **Activities**

College:	PayPal BattleHack, MHacks Hackathon, Treasurer – ACM@UC, Tech Chair – Midwest Dhamaka, Google Code Jam, UC Honors Program, LeaderShape Academy
High School:	Indian National Olympiad in Informatics, Regional Mathematics Olympiad, TCS IT Wiz (National Quiz Contest), IIT Guwahati Technothon
Community:	Cincinnati Tech Olympics, Cincinnati Computer Cooperative, Into the Streets UC, Extreme Makeover: Playground Edition, Southwest Ohio Science Fair, Child Relief and You – Pune, India