

# DANIEL VU DAO

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## EDUCATION

<b>The University of Texas at Austin</b>	Bachelor of Science, Computer Science	May 2016
	GPA: 3.25	
<b>Related coursework:</b>		
Operating Systems	Mobile Computing	Linear Algebra
Computer Architecture	Algorithms	
Data Structures	Logic, Sets, and Functions	
Introduction to Programming	Probability	
		*—Currently enrolled

## EXPERIENCE

<b>Rougemark.com</b> — Software Engineer; <i>Austin, TX</i>	Summer 2014 — Fall 2014
<i>Engineer on the backend team which was responsible for data management, managing REST API endpoints, and user authentication</i>	
<ul style="list-style-type: none"><li>• Added endpoint functionality such as login, sign-up, change password, OAuth, etc. for the view</li><li>• Parsed hundreds of XML feeds for information and converted them into JSON objects for front-end development</li><li>• Integrated a content management system to synchronize with models which was used for data clean-up</li></ul>	
<b>Applied Research Laboratories</b> — Software Developer; <i>Austin, TX</i>	Spring 2014 — Summer 2014
<i>Part of the ITS team that managed database jobs, which changed daily depending on user requests</i>	
<ul style="list-style-type: none"><li>• Programmed SQL to query laboratory data which was used for data analysis in reports</li><li>• Examined and tested fellow peers' code for proper functionality before allowing them to send code into production</li><li>• Wrote shell scripts to automate program execution and database querying, which were run daily as cron jobs</li><li>• Analyzed peer code and fine tuned it for daily laboratory requests made by scientists, managers, etc.</li></ul>	

## SOFTWARE PROJECTS

<b>Karma Farm</b> — Python/Android	Fall 2014
<ul style="list-style-type: none"><li>• Worked alongside a group of two class members to design a Reddit-based android application</li><li>• Constructed and developed a RESTful API using Flask which supported HTTP requests such as GET/POST</li><li>• Hosted the REST API on a cloud server (DigitalOcean) using Apache 2.0 as the web server for production</li><li>• Used AsyncTask to make asynchronous HTTP requests to the server and retrieve JSON data feeds for the UI adapters</li></ul>	
<b>Piano Hero</b> — Javascript	Fall 2014
<ul style="list-style-type: none"><li>• Developed a program at HackTX using the LeapMotion Sensor to detect hand motions and simulate playing a piano</li><li>• Designed the algorithm and fed hand/finger data to the front-end graphics which allowed for precise finger motions</li></ul>	
<b>The Classy Coder</b> — Java/Android	Summer 2014
<ul style="list-style-type: none"><li>• Designed a personal summer project to learn Android development using the standard Android SDK</li><li>• Programmed to send SMS messages using Android's SmsManager class to a number containing a coding pun</li><li>• Included a subscription function which utilizes Android's PendingIntent to send a SMS twice a day</li></ul>	
<b>Facebook UT Buy/Sell/Trade/Free Macbook Scanner</b> — Python	Summer 2014
<ul style="list-style-type: none"><li>• Automated bot which scans through UT's Buy/Sell/Trade/Free (Auction) page and sends a Facebook message to a user</li><li>• Integrated with Twilio's REST API to notify a person via SMS of a Macbook sale</li></ul>	
<b>Reddit's NBA Negative Karma Bot</b> — Python	Summer 2014
<ul style="list-style-type: none"><li>• Designed a personal summer project in honor of the NBA 2014 Playoffs</li><li>• Used the PRAW API to pull comments from top NBA submissions which had less than or equal to -10 points</li><li>• Automated cron job with Heroku to send private messages to the users warning them of their crime</li></ul>	
<b>The Animal Farm</b> — Python/Web development	Spring 2014
<ul style="list-style-type: none"><li>• Developed a web application which supports anonymous serious online debate at HackRice 2014</li><li>• Collaborated with three other teammates to develop at HackRice 2014 over the course of 24 hours</li><li>• Programmed the backend using SQLite3 and Flask's micro framework to allow for front-end API usage</li></ul>	

## TECHNICAL SKILLS

- Proficient in Java
- Programmed with C and Python
- Comfortable with software such as Git, Eclipse, MongoDB, Elasticsearch, noSQL, SQL, Django, Flask