Vikas Shiva Pydah

EDUCATION
Vanderbilt University, Nashville, TN
Bachelor of Science, Computer Science Degree anticipated May 2017
Minor in Material Science
Current GPA: 3.60
Dean's List: Fall 2013, 2014
Relevant Courses 2013-14: Computer Science 101 (Java), Data Structures (C++), Digital Logic
2015 Spring Courseload: Intermediate Software Design (C++), Computer Organization (low-level),
Discrete Structures, Computers and Ethics, Linear Algebra

RESEARCH EXPERIENCE
Research Assistant, November 2013-August 2014
Vanderbilt Institute for Nanoscale Science and Engineering Laboratory, Nashville, TN
- Helped synthesize graphene on copper substrate- flooded hydrogen and methane gas into a furnace, used a PMMA spinner, and used Ferric Chloride to etch away copper
- Analyzed cell-graphene interaction

PROGRAMMING SKILLS
- **Languages:** C++ (proficient), core Java (proficient), JavaScript (prior experience), HTML/CSS (prior experience), MySQL (prior experience)
- **Other:** Java Servlet API (proficient), Android Studio (prior experience)

ACADEMIC PROJECTS
Guitar Hero
- Uses the Karpus-Strong Algorithm to convert a txt file with columns representing time and piano notes to a dat file with columns representing time and wave amplitudes – simulates guitar sounds

Text Twist
- Stores all English words in Trie and recursively finds all combinations of given letterset

Word Comparison
- Uses Maps and Sets to compare documents checking similar word usage

OTHER PROJECTS
Summer Project: vikasshiva.com (still in development)
- Implements database that stores id, username, AES encrypted password, email
- Uses database for login, registration, forgotten password retrieval, changing account information
- Contact Us page sends information to web email

Asteroid Dodger
- Uses JavaScript and HTML 5 Canvas Element to implement Asteroid Dodger game

LEADERSHIP/CAMPUS INVOLVEMENT
Vandy Apps, Vanderbilt University
- Learning Android Studio, have created basic apps with simple UIs

Interfaith Council Secretary, Vanderbilt University
- Organize and send Interfaith Newsletter on a biweekly basis
- Keep minutes during biweekly events and board meetings

Vandy Karma (Hindu organization) Publicity Chair, Vanderbilt University
- Create event flyers using Photoshop and manage Facebook page

EVOLVE Leadership program, Vanderbilt University
- Cultivated and presented leadership development philosophy
- Learned about fostering gender equality, ethnic diversity, and religious diversity in workplace