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 (Java 8 & Android), 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