

# Ethan Vu

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## EDUCATION

Virginia Polytechnic Institute and State University , Blacksburg, VA  
B.S. in Computer Science, expected December 2017  
GPA: 3.38 overall, 3.47 in-major  
Deans List (Spring 2015, Spring 2016, Fall 2016 w/ Distinction, Spring 2017)  
Member of Programming Team and Hackers @ VT

### Major Subjects

Data Structures and Algorithms  
Software Design  
Database Management Systems  
Computer Systems  
Data and Algorithm Analysis

## PROJECTS

- Steakstats in Python/Django and SQLite August 2017  
Used Python to access an API in order to retrieve online tournament data in XML. Designed a database and put parsed data into it. Used Django to show stats about tournament participants.
- Web Accessible Database in PostgreSQL and PHP February 2017 - April 2017  
Worked in a team to create a web-accessible database that held information about 1.4 million publications. I focused on designing the database by creating ER diagrams and using normalization techniques.
- Simple Web Server in C April 2017  
Implemented a basic HTTP web server that provided access to web services and files. Implemented persistent connections for multiple, simultaneous clients as per HTTP/1.1 protocol.
- Market Catalog in Excel November 2016 - December 2016  
Worked in a team to build tools for Taproot Botanical Alliance to help its business run better. My duty was to consult with the client and customize catalog functionalities to his specifications. Gave presentation to the client about how the tools features and how they worked.
- Memory Manager in Java September 2016 - December 2016  
Created data structures such as hash tables, buffer pools, parent pointer trees, B+-trees, graphs, and linked lists in order to store a lot of data so that it could be retrieved and manipulated quickly. Minimized coupling and maximized cohesion of classes that made up the data structures to make debugging and testing easier.

## SKILLS

Java, C, Python, PostgreSQL, Linux, HTML, CSS, JavaScript/jQuery, LaTeX  
OO programming, testing, debugging, relational databases, algorithm analysis  
Quick learner  
Vietnamese, Spanish

## WORK EXPERIENCE

- Private Tutor May 2017 - August 2017  
Helped students understand Java, HTML, CSS, and C++. Taught students good programming practices, such as unit testing, documentation, and how to debug.
- Crew Member at Little Caesars May 2015 - August 2015  
Performed tasks efficiently, interacted with customers, and communicated with coworkers frequently.