

# PHI LE

PVLE@UCSD.EDU

## EDUCATION

---

### University of California, San Diego

*Bachelor of Science, Computer Science*

Expected Graduation December 2012

## CLASS PROJECTS

---

- **Software Engineering: Chat Client (Java)** – software development and engineering methods to implement a Java Chat Client using the model, view, controller format. Worked using paired programming to implement various parts of client and server.
- **Compilers: C Compiler (Java)** – implemented a pseudo-C compiler using Java classes, inheritance, and objects. Implemented error checking, SPARC code generation, and optimizing.
- **Advanced Data Structures: Huffman Coding Data Compression (C++)** – implemented data compression using C++, binary tree and a priority queue. Compressed a file losslessly and minimized header size.
- **Computer Networks: SRMP Transport Protocol (C)** – implemented a simple, reliable, sequence message transport protocol on top of UDP. Implemented control block to send and receive ACKS and SYN's
- **Algorithms: Traveling Salesman Solution (C++)** – implemented branch and bound in order to solve traveling salesman problem in minimal time.
- **Architecture: Processor Design (Altera Quartus 2)** – designed an 8-bit processor to multiply two numbers, determine if a sequence of bytes is a palindrome, find longest matching RNA sequence, and determine if a list is almost sorted. Designed ISA to maximize efficiency.

## PROGRAMMING LANGUAGE/TOOLS

---

Best: Java

Eclipse, SVN

Second: C++

UNIX, Linux, Windows

Third: C

SPARC Assembly

## EXPERIENCE

---

### Database Management Contractor

La Jolla, CA

*National Oceanic and Atmospheric Administration*

June 2011 to September 2011

- Reorganized data into comma-separated value format in order to process for different programs.
- Worked in Microsoft Access Database and assisted in designing data-entry forms for P.Is.

### Student Consultant

La Jolla, CA

*Academic Computing and Media Services at UCSD*

November 2009 to June 2011

- Help with programming tools, locally-supported packages, printing, on-line documentation, e-mail, and word processing.
- Perform troubleshooting for MATLAB, Microsoft Office, Solidworks, AutoCAD.
- General operating system installation, network troubleshoot, and connectivity solutions.