

# Dave Yan

hello@codingisart.com • 281-857-9388 • [www.codingisart.com](http://www.codingisart.com)

## Education

- **Carnegie Mellon University** (*Senior, Expected Graduation May 2015*)
  - o Bachelor of Science in Computer Science
  - o Minor in Art
  - o GPA: 3.45

## Skills

- **Programming Languages:** C#, Haskell, Objective-C, Java, Python, C/C++, SQL, Processing, SML, Matlab, LaTeX
- **Applications:** Maya, Photoshop, Unity, Visual Studio, Xcode, SQL Management Studio
- **Human Languages:** Fluent in Chinese

## Experience

- **Software Development Intern • Epic** (*Summer 2014*)
  - o Desktop Application that collects data from eyetracking usability studies and visualizes their results
  - o We built it with a \$100 device. It is now a functional alternative to a \$30,000 eyetracking suite
  - o I made its backend data structure and API, visualization tools, and data access layer with SQL. I also conducted usability studies and help designed the UI
  - o I learned the design and structure of software applications and usability testing procedures
- **Research Intern • Human Computer Interaction Institute** (*Spring 2013 - Present*)
  - o iPad app which allows art students with hearing problems to peer critique each other's works
  - o I designed the UI of the app, improved the its backend, and added functionality to its server
  - o I am currently analyzing the data recorded during summer 2014
  - o I learned UX processes, iOS development, network communication, and documentation techniques

## Projects

- **Words** (*Spring 2014*)
  - o 3D animated short film (2 minutes) made in Autodesk Maya
  - o It follows a dancing girl who is viciously attacked by Youtube comments
  - o I made the storyboard, conducted motion capture, performed rendering, and distributed workload
  - o I learned to work with artists, follow the animation pipeline, and deal with modifications to plans
- **Mortis** (*Fall 2013*)
  - o Semester-long video game project made with XNA at CMU's Game Creation Society (GCS)
  - o Player controls Death to take and give lives to other characters to solve puzzles
  - o This game won the GCS Gold award for the semester
  - o I led team of 8 artists, distributed workload, integrated assets, and handled communication
  - o I learned to manage a team and how to merge different people's works into a finished product
- **Compiler** (*Fall 2014*)
  - o Program written in Haskell that compiles the C0 language (developed by CMU)
  - o I implemented data structures and designed the flow of the pipeline
  - o I learned to design scalable software which requires features being added on iteratively
- **Sweet Potato** (*Spring 2014*)
  - o Program that generates questions and answers on Wikipedia articles, made in Python & Java
  - o I made the question generator and took care of pronoun resolution for question answering
  - o I learned agile development, edge cases handling, and experimentation with multiple approaches

## Other Information

- Currently a U.S. Permanent Resident
- Full portfolio on my website [www.codingisart.com](http://www.codingisart.com)