

JOHN E. SCALES III

Last Updated 1/2/2020

Education

Rio Hondo College 09/2015 – 06/2018
AS in General Studies - Emphasis in Science and Mathematics, Whittier, USA

GPA: 3.8

Relevant Coursework: Physics for Scientists & Engineers (Mechanics, Waves Optics & Modern Physics, Electricity & Magnetism), Calculus II, Advanced Java Programming

Awards & Honors: Deans Honors Fall 2016, Deans Honors Fall 2017, Edison Scholarship

Extracurricular Activities: MESA Program

California State University - Fullerton 09/2018 – present
BS in Computer Science, Fullerton, USA

GPA: 3.49

Relevant Coursework: Data Structures, File Structures & Databases, Operating Systems Concepts, Mathematical Structures (I & II), Computer Organization & Assembly Language, Software Dev w/ Open Source, Tech Writing for Comp Sci, Compilers & Languages, Algorithm Engineering, Computer Communications & Networks, Statistics Applied to Natural Sciences, Programming Concepts
Graduation Expected: Fall 2020

Technical Skills

Languages

C++, JavaScript, Java, Shell Script, PHP, Python, x86, R, HTML

Technologies

Git, Vagrant, Docker

Tools

Visual Studio, Eclipse, Atom, GNU GCC, Clang, Unity, Microsoft Office, Drop Box

Other Software

Windows 10, Linux, Mac OS, iOS, Android, Android Studio, Tar, Adobe Photoshop, Adobe After Effects, Adobe Premiere Pro, Davinci Resolve, Magix Vegas Pro, GIMP, GraphicsMagick, OBS, Audacity

Experience

Server 12/2017 – 04/2018
Oakmont Senior Living, Brea, United States

- Memorized the names of over 80 residents.
- Clean dining room and kitchen.
- Setup dining room and prepared food.
- Waited tables & handled transactions.

Projects

Tiny Tidy Backup

Made a shell script that backs up a specified folder to a specified destination directory or a remote directory using SSH and dd depending on the parameters used. The folder is turned into a bzip archive using tar and is named according to this scheme: 2019-01-17-20-30-my-project.tar.bz2. A file is created in the destination directory named SHA256SUMS that keeps a record of the archives and checksums that are generated from those archives. The SHA256SUMS file is used to delete old archives and add new ones (which are removed and appended to SHA256SUMS). The number of kept archives depending on the parameter N that tells the script how many to keep. The script runs daily using crontab using whatever options the user specified.

Wordpress Vagrant Box

Configured a Vagrant bootstrap to provision a Bionix64 box that hosts a WordPress development environment.

Cellular Automata

Made a demonstration of a cellular automaton using Javascript, HTML, and CSS. It is based on Turk and Propp's Ant #12 variation of Langton's Ant. The starting point is a black 40x40 grid in which the ant takes one cell and is indicated by an arrow that points towards the ant's heading. The ant has 4 states: 1100. 1 indicates the ant should turn left, and 0 means right. The ant moves forward after every turn. If the ant hits a black or red cell it will turn left. If the ant hits a yellow or blue cell it will turn right. The colors of the cells increment by 1 starting at 0 which is black and is this position: 1100 and will go to red 1100 and then yellow 1100 then blue 1100 and then back to black 1100. The cells increment to the next color when they are visited by the ant and the ant changes heading.

More Projects on my GitHub and Website

Links

LinkedIn: <https://www.linkedin.com/in/john-scales/>

GitHub: <https://github.com/JESIII/>

Website: <https://johnscales.site/>