Carter **Roeser**

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Education

Oregon State University *Corvallis, OR*
Pursuing BS in Computer Science *September 2020 – Present*
GPA: 3.96. Relavent Coursework: Intro to Computer Science; Software Engineering; Operating Systems I; Intro to Databases; Intro to Security; Programming Language Fundamentals; Algorithms; Data Structures; Web Developement; Digital Logic Design; Discrete Math; Differential, Integral & Vector Calculus; Intro to Matrix & Series; Intro to Stats for Engineers; Technical Writing.

West Albany High School *Albany, OR*
Graduated with Honors *Sept 2016 – June 2020*
GPA: 3.98

Experience

Oregon State University *Corvallis, OR*
Senior Information Technology Technician *August 2020 – Present*
- Senior member of OSU's College of Engineering ProStaff IT Group supporting students, faculty, and facilities.
- Specialize in Windows desktop and server administration, managing image and app packaging, development, and deployment.
- Lead software developer building internal and public websites, tools, web apps, APIs and databases.
- Manage large project design and implementation, including multiple migration and deployment projects to 2,000+ endpoints.

CJREvents *Albany, OR*
Owner / Operator *September 2013 – Present*
- Event Production, Equipment Rental & Mobile DJ Services
- Business management including marketing, client management, team leadership, financial management, etc.

Oregon State University *Corvallis, OR*
Summer Computer Graphics Intern *June 2019 – August 2019*
- NVIDIA Computer Graphics & Imaging Laboratory
- Developed a hardware accelerated ray tracer in C/C++, OpenCL / OpenGL, CUDA

Projects

Vesta Web Interface *PHP, Javascript, MySQL*
Web hosting control panel with customizable branding / interface, 3rd party integrations, and plugin ecosystem. 3,000+ downloads and 50+ forks. *vwi.cdgtech.one*

Accelerated Ray Tracer *C/C++, OpenCL / OpenGL / CUDA*
CPU / GPU accelerated ray tracer developed for testing perfmance of variaus parallel and non-parallel processing techniques on rendering the same scene. *raytracing.cdgtech.one*

01V Web Controller *NodeJS, Electron, WebSocket*
Multi-device real time remote controller for 26-year-old audio mixer. Local server communicates with mixer over MIDI. Web app allows devices to control mixer wirelessly. *github.com/cdgco/01v-web-controller*

COE Tools *PHP, Javascript, MySQL*
Web interface and API to manage IT tools. LDAP authenticated user roles, drag-and-drop user customizable toolbar, favorite and recent tool tracking, dark mode, tool search, filter and categorization. *github.com/cdgco/coetools*

SmartLists *NodsJS, Handlebars, MongoDB*
Music visualization platform that allows users to view the metadata from their Spotify playlists through interactive 2D, 3D, and AI generated graphs and art while listening to their music. *github.com/cdgco/smartlists*

SmartAssets *NodeJS, Vue, MongoDB, Elasticsearch*
API centric asset management system providing easy integration with other tools. Features native barcode scanner and label maker support, built-in barcode camera, asset tag templates, and more. *github.com/cdgco/smartassets*

Skills

Languages: C, C++, JavaScript, Python, PHP, HTML, CSS, SQL
Technologies: NodeJS / NPM, Git / Github, Electron, Firebase, Express, MongoDB, Vue, OpenAPI

Awards

Fall 2020 - Present	**Dean's Honor Roll**, Received scholastic honor roll for every term at Oregon State University.	*Oregon State University*
2020	**Principal's Award**, Recognized for scholarship and community service.	*West Albany High School*
2020	**Student of the Month**, Recognized for scholarship and community service.	*Albany Chamber of Commerce*
2020	**AP Scholar Award**, Recognized for achieving a 3 or higher on 3 or more AP exams.	*College Board*
2019	**District All-Star Award**, Recognized for community service work at schools around the district.	*Greater Albany Public School District*