

Daniel William Rivers

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PROFILE HIGHLIGHTS

Implemented image processing algorithms in MATLAB, Python and C++; performed product demonstrations to 200+ people; developed proprietary product features for Roche with scalable and extensible code; led multiple teams of 4+ people for prototypes and startup projects; trained/mentored students during programming courses; and enhanced/supported GUI/frontend.

CORE COMPETENCIES

Computer Vision - Algorithm Design and Optimization	Python MATLAB VHDL Verilog JavaScript HTML CSS Java C C++ C#	React Redux Angular JS Node.js PHP
Deep Learning TensorFlow Jupyter Notebook Anaconda	Unity Adobe Photoshop Illustrator Blender	Computer Design Assembly Language Programming Systems Programming
MS Project Excel	Computer Architecture Operating Systems	VS Code GitHub Jira Confluence
Docker / Kubernetes	PM Methodologies – Agile Waterfall	PCB Design – EAGLE PSPICE OrCAD

EDUCATION

M.S., Electrical Engineering, CalPoly SLO, CA – 2022 – Dean's List / Award of Honor

Thesis: *Investigation of Green Strawberry Detection Using R-CNN with Various Architectures*

B.S., Computer Engineering, CalPoly SLO, CA - 2020

AWARDS

• Math Department Award - 2016	• AP Scholar with Distinction - 2016
• National Congress of Future Science and Technology Leaders - 2015	

PROFESSIONAL EXPERIENCE

Data Collector | Electrical Engineering Dept.

Cal Poly, San Luis Obispo, CA - 1/2019 - 9/2019

- Compiled data to build computer vision algorithms
- Devised image recognition software to identify and predict strawberry yield

Summer Intern | Software Engineering Dept.

Cru, Orlando, FL - 6/2019 - 8/2019

- Created / Deployed *Event Registration Tool*
- Restored GUI using React Redux with 6-person team

Summer Intern | Digital Pathology

Roche Diagnostics, Santa Clara, CA – 6/2018 - 9/2018

- Co-Developed virtual microscope for cancer pathologists
- Co-Developed prototype of next-generation viewer using WebGL

COMMUNITY SERVICE

- **Homeless Outreach**, San Luis Obispo, CA / Tenderloin, San Francisco, CA – Facilitate monthly meals for homeless
- **Food Bank**, San Luis Obispo, CA – Coordinate inventory; process contributions

PERSONAL INTERESTS

Drumming / Tennis / Acrylic Art / Long-distance Running