Rodney Dejournett

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Experience

Product Development Engineer, Intel Corporation – Atlanta, GA Aug 2022 – Present

Worked on Intel's flagship **18A** server processors, supporting post-silicon validation and test development for high-volume manufacturing.

- Led validation across software-hardware-data pipelines to ensure code quality, functional hardware behavior, and accurate output.
- Integrated **PyMTPL**, a programmable abstraction layer over Intel's **OTPL**, into **SCAN** workflow—building a **CLI**-driven tool to produce a standardized flow from user input, reducing setup time and code size by **20x**.
- Ran daily team huddles, set engineering priorities, and managed cross-team coordination across multiple programs to meet tight product deadlines.
- Operated in an **Agile**/**Scrum**-aligned workflow, emphasizing frequent iterations, debug, and continuous feedback.
- Analyzed large-scale scoreboard data to identify redundant or never-fail **ATPG** patterns, streamlining test content and improving **DFT** efficiency.
- Reduced chip test time by **45secs** per unit across 1M+ units, resulting in over **$1.35M** in cost savings from optimized workloads and debug efforts.
- Quickly ramped from novice to key contributor, moving from one product to another with minimal oversight.
- Recognized for driving probeless debug **Scan Chain** BKMs, improving efficiency and time-to-market (**TAT**)
- Recognized for identifying and fixing a high-impact **SCAN** yield anomaly, reducing false signals and improving our yield indicator reliability across products.

Research Intern, NC A&T Cybersecurity Research – Greensboro, NC Jun 2021 – Jan 2023

- Built **Python**-based facial preprocessing tool that extracts the periocular region from **68**-point facial landmarks.
- Designed and trained convolutional neural networks (**CNNs**) using **TensorFlow**/**Keras** to classify periocular images.
- Evaluated models using **confusion matrices**, **precision**, **recall**, and **F1-score** data visualization with **Matplotlib**.
- Handled large image datasets with **NumPy**, **glob**, and **PIL** automated data cleaning, normalization, and augmentation.
- Authored clear, structured documentation and presented weekly updates to research mentors.
- Presented research objectives, results, and conclusions in the **10th Annual COE Graduate Poster Competition**.

Freelance Software Engineer, Independent – Remote Mar 2018 – Present

- 100% of business through word-of-mouth referrals and repeat engagement.
- Built and maintained e-commerce websites for small business owners.
- Assisted students with homework, code debug, and project support.

Skills

Languages: Python, C/C++/C#, Java, **HTML/CSS/JS**, SQL

Tools: Git, PyTorch, Pandas, OpenCV, Flask, Selenium, scikit-learn, JMP

Specialities: ATPG, Design For Test(DFT), Data Visualization, Debug Automation

Education

North Carolina A&T University, B.S in Computer Science – Greensboro, NC Aug 2020 – May 2022

- GPA: **3.82**
- Awards: CyberCorps: Scholarship for Service

Mars Hill University, B.S in Computer Engineering – Asheville, NC Aug 2018 – May 2020

- Awards: **Leadership Scholarship**, **Athletic Scholarship**, **Crosby Honors Scholarship**

Publications

A Comparison of Deep Learning Models for Periocular Region Based Authentication Apr 2024

Jeffrey J. Hernandez, Rodney Dejournett, Justin Bowser, Xiaohong Yuan, Kaushik Roy

10.1007/978-3-031-47724-9_31