

Christopher Oldham

Education

- 2015–2019 **B.S.E. in Computer Science and Engineering (Honors)**, *Magna cum laude*, University of Connecticut, Concentration in Bioinformatics. GPA: 3.86/4.00.
Honors Scholar; Sophomore Honors Award; Certificate of Outstanding Achievement; Engineering Dean's List; Upsilon Pi Epsilon Computing Honor Society; Tau Beta Pi Engineering Honor Society
- 2014–2018 **Bachelor of Science in Physics**, *Magna cum laude*, University of Connecticut, Minor in Mathematics, GPA: 3.86/4.00.
Research in experimental nuclear physics under Andrew Puckett; Phi Beta Kappa and Sigma Pi Sigma Honor Societies; Academic Excellence Scholarship; Dean's List

Projects

- 2018–2019 **SCarborSNV Algorithm and Tool**, Honors Thesis in Bioinformatics.
Efficient phylogeny-aware single nucleotide variant detection for single cell DNA sequence data.
 - Novel algorithm with asymptotic speedup over the state-of-the-art;
 - Detailed mathematical description, written paper and full C implementation for CLI tool;
 - Robust, efficient and can be used in research/medical sequence analysis pipelines.
- 2020–2021 **Continuum Android App**, A Daily Habit Tracking App that Works.
React Native + Redux app currently in the Android Play Store
 - Stable, attractive, intuitive app with unique notion of habit "momentum";
 - Local notification and Play Store billing integrations;
- 2020–2020 **CVInglés website**, Profesional CV services for Latin Americans looking for .
A semi-automated CV translation, editing and typesetting website
 - User JSON form data in either English or Spanish converted to a compilable \LaTeX document;
 - Front end: React, Stripe, HTML, CSS, Javascript;
 - Back end: AWS API Gateway, Lambda (Python), DynamoDB, SQS, SES, CloudFront, Route53.

Experience

- 2018–2019 **Research Assistant**, *University of Connecticut, USA*.
Individual and collaborative research into novel bioinformatics algorithms under Yufeng Wu and experimental nuclear physics under Andrew Puckett.
 - Algorithm design and benchmarking, writing custom tools in C and Python. Some of this research culminated in my undergraduate thesis;
 - Testing and calibration of precision particle detector components, including ultra high speed data capture and some automation using LabVIEW.
- Jun–Aug 2017 **Digital Technology Leadership Program Intern**, *United Technologies, USA*.
At Pratt & Whitney, I led a cross-functional team to plan, prepare and execute testing for a large, business-wide software project. I worked closely with supply chain and logistics experts, software developers, aerospace engineers, multiple IT teams and management to develop and execute a test strategy that covered integration testing and user acceptance testing.
 - Worked with the business to define over 250 use-case scenarios for the new software, and coordinated multiple business and IT teams to develop and execute test scripts. This included planning and running frequent meetings, some with 30+ attendants;
- Dec 2015– Mar 2016 **Systems Integration Engineer**, *NXEGEN, LLC, USA*.
Assisted with back end maintenance and development using Visual Studio, C#, MS SQL; Assembled and compiled efficiency reports from test data, turning SQL commands into actionable information.

Skills

- Languages English, Spanish, Python, JavaScript, C, Java, \LaTeX
Tools Git, Linux, VIM, LabView, TensorFlow, Office Suite, GIMP

London, N16 – Tier 5 YMS Visa

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