

NICHOLAS J. VIRAG

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EDUCATION

BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE

Graduated May 2017

LAWRENCE TECHNOLOGICAL UNIVERSITY, Southfield, MI
Graduated Cum Laude honors with a 3.43 cumulative GPA.

Awarded Outstanding Achievement in Computer Science for research and analysis of photometric redshift of galaxies using machine learning techniques with Python and Jupyter.

WORK EXPERIENCE

SOFTWARE DEVELOPER

Spring 2017 - present

WARYMARK, Detroit, MI

Designed and developed a toolkit for video creation that saves many hours per day by automating the performance profiling, publishing, and versioning processes for new video products.

Tools used: Python & Django, Javascript ES6 & React, PostgreSQL, Adobe After Effects.

PROJECT MANAGEMENT & SOFTWARE DEV INTERN

Summers 2013 - 2016

DETROIT LABS, Detroit, MI

Developed a multiplatform social networking app alongside other interns while communicating with clients.

Practiced Agile development, test-driven development, and paired programming.

Tools used: Ruby on Rails, MySQL, Node.js, MongoDB, Jira, Java on Android.

SOFTWARE DEVELOPMENT INTERN

Spring 2015

TRENDALA INC., Troy, MI

Designed and implemented features for Trendala's main product, a social shopping app.

Tools used: AngularJS, HTML, CSS, Javascript, JQuery, Phonegap, Git & Github, Trello.

ADDITIONAL WORK EXPERIENCE: Assistant Robotics Instructor at Wayne State University, 2011

PUBLICATIONS

Nicholas Paul, Nicholas Virag, Lior Shamir. A catalog of photometric redshift and the distribution of broad galaxy morphologies. <https://arxiv.org/abs/1806.03395>

EXTRA-CURRICULARS

BEST HACK FOR DEVELOPERS, 1517 GRANT, & BEST TWILIO HACK

Designed and developed *SSH 4 SMS*, an SMS system for remote system administration.

Awarded Best Hack for Developers, 1517 Grant, and Best Twilio Hack at MHacks: Refactor.

CALHACKS BEST MOBILE HACK & TOP TEN FINALIST

Designed and developed *Parvelly*, an Android app for crowdsourced package delivery.

Awarded Best Mobile Hack and top 10 finalist against 1800 competitors at CalHacks 2014

E3 COLLEGE DEV TOP 5 FINALIST

Developed *Paper Dream* game with Lawrence Tech student group Infinite Machine.

Placed top 5 overall and Infinite Machine presented at E3 2014 in Los Angeles, CA.

ADDITIONAL EXTRA-CURRICULARS: GlobalHack Semi-finalist, HackDPL 2014 Second Place