Paith Philemon

Software Engineer

Statement of Goals

We have an unprecedented opportunity to shape how people reason about software–and the systems that people do not yet call software. The goal of my Profession is to make provable guarantees ubiquitous to system learning. I am interested in designing (1) Python programming models, (2) program decision-making systems, (3) and dynamic program analysis techniques to make it easier for people to create the software products they intended.

Outreach Mission

My interests in programming language design and software applications come from a desire to empower. For similar reasons I am interested in promoting equal opportunity in science, technology, engineering, and mathematics (STEM) fields, as well as science communication and outreach in order to understand the importance of programming languages. I am interested in improving stem education, and facilitating commercialization of technical ideas and systems.

My main activities have been as follows:

From 2019-Current I co-lead and direct educational session's for Women in Analytics Data Science (WiADS), an internal organizational group of 500+ members. WiADS is a platform for data science practitioners and enthusiasts to share their knowledge through technical presentations, hands-on workshop, use cases, etc. to create opportunities for members to engage in technical and professional conversations in a positive, supportive and encouraging environment, create awareness, explore opportunities, and empower them with tools, training, and resources required.

Currently focused on emerging technology in the Product Engineering and Data Solutions organization at Optum, a UnitedHealth Group Company. Where healthcare products and services can be built that will utilize technologies such as Artificial Intelligence and Cognitive Architecture. I help address needs and areas of opportunity inside our business where emerging technology can be leveraged to reduce costs or increase revenue and improve the lives of our patience.
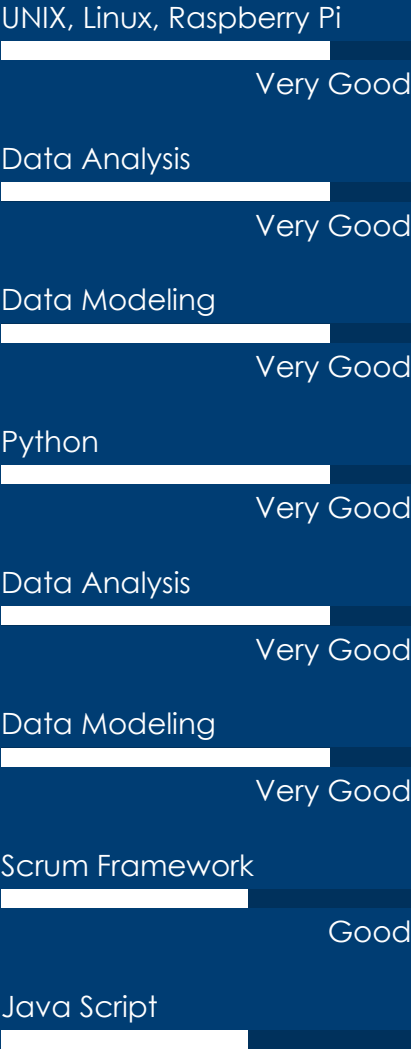
To narrow the gap between academia and industry, I co-founded The Futurist Academy, an accelerator platform for educators and future young minds.

Contact

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Phone
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E-mail
paithmp@gmail.com

LinkedIn
.com/in/paithphilemon/

Skills

UNIX, Linux, Raspberry Pi

Very Good

Data Analysis

Very Good

Data Modeling

Very Good

Python

Very Good

Data Analysis

Very Good

Data Modeling

Very Good

Scrum Framework

Good

Java Script

Professional Employment

2019-01 - Current
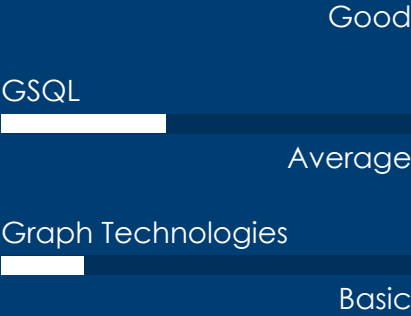
Software Engineer

UNITED HEALTH GROUP, Minneapolis, MN
Combining knowledge and experience from my interests in cognitive science, human factors, human-computer interaction design, and systems engineering. As well as its multidisciplinary opportunities with data analysis, python programming, and evaluation of complex systems of people and technology in the healthcare space.
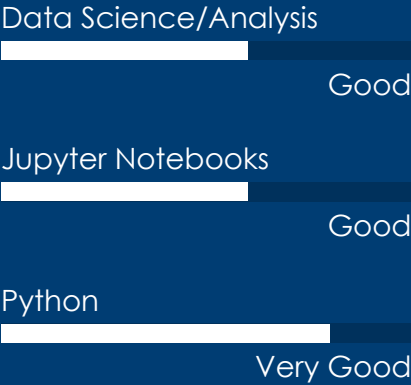
Special Projects:
Extracting addresses from text is a difficult problem. As a developer on the team we examined a number of open source frameworks that deals with addresses. The team found a parser based solution that works well with reasonable accuracy and speed and have explored, PyAp, usaddress, and extracted addresses from text.

I implemented a spellchecker package using SymSpell. It was best option due to the fact that it supports both word segmentation and joining. With pre and post-processing of the data that we sent to the auto-text corrector in order to ensure that we avoid some of the issues with the library. Helping find a spell checker parser-based solution that works well with reasonable accuracy and speed.
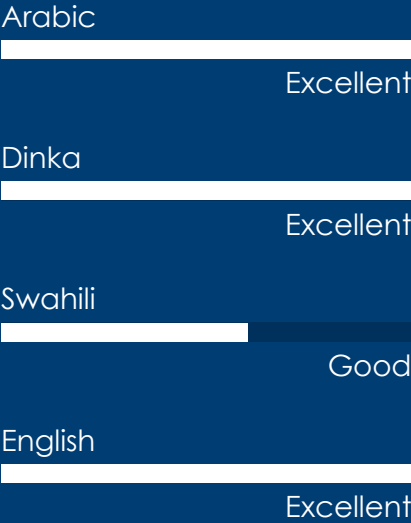
- Stored, retrieved and manipulated data for close analysis of image processing database performance across a 1 year period.
- Conducted classification models, regression testing, model demo's, analyzed results and submitted observations to development team.
- Collaborated with cross-functional development team members to analyze potential system solutions based on evolving organizational requirements.
- Tested troubleshooting methods, devised innovative solutions, and documented resolutions for inclusion

in knowledge base for support team use.

2021-09 - Current

Research Assistant

University Of Minnestota, Minneapolis, MN
Using Python framework to conceptualize, create front end, back end, deploy and operate web application and application programming interfaces for The Kusske Design Initiative (KDI).

2017-09 - 2019-01

Chief of Staff

United Health Group, Minneapolis, MN
Champion the set strategic initiatives for Optum's 1st Technical Fellow, Kerrie Holley. Managing special projects across departments, like new frameworks, business models, restructuring, and business reviews.

Kerrie Holley built a high performance engineering team comprised of software engineers, PhDs, scientists, AI engineers, data scientists and DevOps engineers incubating and applying leading edge technologies in healthcare. I leveraged exceptional organizational and people skills as his Chief of Staff developing analytic frameworks, data models and relevant insights to support prioritization, scoping and effective decision-making throughout the organization to Influence, facilitate, orchestrate, and provide frameworks and effectively act as the central contact for all business communications.

2017-06 - 2017-09

Business Analyst

UNITED HEALTH GROUP
My focus as a Business Analyst was defining the Sharepoint application problems by conferring with data feed owners, building teams; evaluating procedures, migrating sites and processes using lean methodologies for Optum's End User Technology organization.

I worked closely with software development and testing team members to design robust solutions to meet client requirements for functionality, scalability and performance for the Windows 10 Migration.

**2019-10 -
Current**

Mentor

Coder Dojo, Minneapolis, MN
I volunteer as a mentor at CoderDojo Twin Cities. As a mentor I am supportive first and foremost to children 8 to 17 year olds and introduce youth to my knowledge of Python and Jupyter Notebook to not only engage them but spark their Curiosity of Technology.

**2018-08 -
Current**

Founder

The Futurist Acadamy, Minneapolis, MN
The Futurist Academy is working to reshape the future. We leverage the latest in technology and innovative ideas to mold a future of self-empowerment. With our platform, educators will be able to host their creative teaching solutions, styles, and-agendas.
• At Futurist Academy, we believe that as long as you are Learning, Creating and Sharing your knowledge you become the Future. It is a network of students creating program of communities to leverage the latest technology and apply it through various methods such as workshops and hosted external events.
• Build skills in technology and digital media through which Futurists can innovate creative ideas to champion their advocacy.
• Explain, Teach, Inspire the Community.

Education

**2021-09 -
Current**

Master of Science: Human Factors And Ergonomics

University of Minnesota - Twin Cities - Minneapolis, MN
The graduate program is in interdisciplinary coursework that addresses human performance and how it can be enhanced through the design of tools, systems, working environments, processes, and organizations. Using HFE applications ranging from clothing and living spaces to business processes, the design of health care processes

and technology, computer interfaces.

2012-05 - 2017-05	**Bachelor of Science: Management Information Systems**

Iowa State University - Ames, IA
Management Information Systems degree with an emphasis in business, supported with technical skills and background that gave me the ability to use programming skills to develop and provide problem-solving ability to critically analyze business processes, identify inefficiencies and problems, assess information requirements, create business solutions and technical specifications for the supporting system.

2014-05 - 2017-01	**Bachelor of Arts: Liberal Arts And Sciences**

Iowa State University - Ames, IA
Liberal Studies emphasis in Medical Illustration and Design.

Accomplishments

AWARDS and HONORS | 2021 fellow recipient of the Diversity of Views and Experiences (DOVE) scholarship at the University of Minnesota. To assist graduate programs to promote a diversity of views, experiences, and ideas in the pursuit of research, scholarship, and creative excellence.

FOUNDER | The Futurist Academy is working to reshape the future. We leverage the latest technology and innovative ideas to mold a future of self-empowerment. With our platform, educators will be able to host their creative teaching solutions, styles, and agendas. At Futurist Academy, we believe that as long as you are Learning, Creating and Sharing your knowledge you become the Future. It is a network of students creating program of communities to leverage the latest technology and apply it through various methods such as workshops and hosted external events. Build skills in technology and digital media through which Futurists can innovate creative ideas to

champion their advocacy. Explain, Teach, Inspire the Community.

SPEAKING | Interview at Minnesota STEM Partnership to discuss how we foster the development of the next generation of with emerging technologies and STEM to reshape the world of tomorrow. Including how Futurist Academy is leveraging the latest in innovation ideas to mold a movement reshaping the Future! **https://lnkd.in /gbSibcf**

Certifications

2018-05	UDACITY NANODEGREE Introduction to Programming
2019-01	UDACITY NANODEGREE Become a Data Scientist
2020-05	UDACITY NANODEGREE Data Analytics
2020-09	UDACITY NANODEGREE Machine Learning

Other Interests and Activities

Social Justice & Sustainable Community Development

Human Rights & Humanitarian Affairs

Education and Scholarship

Photography & Cinematography