

# JUSTIN STARR

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## TECHNOLOGICAL SKILLS

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### Languages

Python(3), C++, SQL, JavaScript (Type & ECMA), HTML(5), (S)CSS, C#, C, Java, Visual Basic, R

### Frameworks

Documentum, Adobe Experience Manager, .NET, Node, Bootstrap, Angular, Vue

### Tools

Azure, Git, Maven, Node Package Manager (NPM), Team Foundation Server (TFS), Globus, Kubernetes, Jupyter, Cron

### Methodologies

Scrum, LEAN and Kanban

## CERTIFICATIONS

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Coursera  
2023

- Generative AI with Large Language Models
- University of Michigan: Python Specialization

## EDUCATION

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2013 - 2016

B.S. Computer Science, *Indiana University-Purdue University Indianapolis*

## WORK EXPERIENCE

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1/2017 –  
present

### Software Developer, *Tata Consultancy Services (TCS)*

7+ years of providing technology solutions to clients with roles ranging widely from functional to technical , requiring both coding skill and soft skills to interact with stakeholders directly. Deployments include:

Chemical manufacturer, Midland, MI

- Oversaw end of life file transfer from a legacy Documentum system built on the .NET framework, housed in on-premises Apache web servers.
  - Created routes for automated approval system
  - Recognized flaw in the company's help desk knowledge base and created a new reference article to more accurately triage tickets
  - Handled user importation from MS Active Directory
  - Saved months of time for the team by writing a Python script that could mass upload to the SQL back end

- Developer for the company's R&D financial software built on the .NET framework with a SQL data layer
  - Full application migration experience
  - Yearly file remapping and archiving of old data
  - Handled from concept to implementation a change in granularity of the payroll database from the cost center level to the employee level. This required research, the creation of documentation and actual implementation
- Full stack developer for a REST Vue/Adobe Experience Manager(AEM)/Hybris/Node main .com for the company.
  - Enforced version control with GIT
  - Creating modular components at the request of authors involving the proprietary HTL templating of AEM
  - Configured Java servlets
  - SVG styling
  - HTML templating through Vue.js

6/2022 –  
6/2023

**Software Developer on contract, Teksystems**

I contribute to the streamlining of their data flow automation from research programs to central “data lake”. Tool set includes Cron job and Slurm scheduling of various Python scripts to ETL data from research nodes to a MySQL database and then archive to tape backup.

1/2015 –  
12/2016

**Teaching Assistant Coordinator, IUPUI Computer & Information Sciences Department**

- Coordinated the efforts of a team of six teaching assistants in charge of the 200+ students of both freshman computing courses. This involved scheduling times and breaking down the structure of programs. The primary language being Python with lesser C, C++ and Java material included.
- Created course material and improved the CS program.

## SKILLS

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### Artificial Intelligence

- Familiar with problem solving systems (heuristics, search algorithms)
- Implemented a neural network to classify data
- Experience with designing autonomous agent simulations

### 2D Modeling

Worked with HTML, CSS and Java Script to create animations and interactive, platform-agnostic web programs. Contributed particle modeling library to SimpleGame, an open source gaming engine build in Javascript.

## RESEARCH & SELF STUDY

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### Pollination Simulation

Original design of a C++ system based on Apis Melifera pollination behavior in an effort to atomize the attributes for automation. Gives functional output based on trait input for variable sizes of orchards based on industrial agricultural cultivation of almond trees (nonpareil varietal ).