

Joshua Wu

Plano, TX

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Education

University of Illinois at Urbana - Champaign

B.S. IN COMPUTER SCIENCE

Urbana - Champaign, IL

Graduated May 2019

Georgia Institute of Technology

M.S. IN COMPUTER SCIENCE

Atlanta, GA

January 2021 - current

Work Experience

Capital One

SENIOR ASSOCIATE SOFTWARE ENGINEER

Plano, TX

January 2021 - Present

- Wrote scripts for migrating existing Datadog monitors over to New Relic
- Wrote APIs using TypeScript and Express.js for provisioning infrastructure monitors in New Relic
- Maintained an internal application that automates the provisioning of infrastructure and APM monitors and dashboards

ASSOCIATE SOFTWARE ENGINEER

August 2019 - January 2021

- Led development on a Vue.js Single Page Application that allowed users to create graphical workflows and flowcharts
- Worked on an Orchestration Engine that "ran" the workflows and chained together API requests and responses
- Wrote APIs using C# and ASP.NET for mocking up credit card transactions
- Maintained a test data management application that was used internally by thousands of developers

Bayer Crop Science

Urbana - Champaign, IL

SOFTWARE ENGINEERING INTERN

May 2018 - May 2019

- Created scenario-based training and testing tools using Unity that was oriented around teaching farmers to troubleshoot and repair machinery
- Created a data visualization tool that would transform datasets into 3D images that users could interact with in VR

Projects

Global Game Jam 2019

SPECTRE PROTECTOR

January 2019

- Created a Real-Time Resource-Management Game using Unity. Won 2nd place at the event out of 10 submitted projects
- Implemented unit AI for 3 types of enemies and a neutral character
- Created a total of 6 levels using custom-built 2D pixel art assets and tilemaps

PYGHACK 2018

ROUTE RECOMMENDATION USING REAL-TIME FUEL PRICES

September 2018

- Worked on a team of 5 people to analyze the fueling habits of vehicles owned by the city of Urbana
- Formulated a plan for saving money on fuel costs based on insights gleaned from the provided dataset
- Wrote a Flask web app that, given an origin and a destination, would recommend the "best" gas station to stop at along the route
- Wrote a web scraper using BeautifulSoup that would pull crowd-sourced data about gas prices in order to make the recommendation

Skills

Programming Languages: Python, HTML, CSS, Sass, JavaScript, TypeScript, C#, Java, C++

Frameworks and Tools: NodeJS, Angular, Vue.js, Express.js, .Net Core, GraphQL, Docker, Unity

Other Tools: Git, Linux