

Vishesh Dembla

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EDUCATION

Indiana University <i>Master of Science, Computer Science – GPA: 3.8 / 4.0</i>	Bloomington, IN <i>Jan 2021 – Dec 2022</i>
University of Pune <i>Bachelor of Engineering, Information Technology</i>	Pune, India <i>Jun 2013 – May 2017</i>

EXPERIENCE

SAP Labs <i>Developer Associate – Business ByDesign Platform, IoT Platform</i>	Bengaluru, India <i>Jul 2017 – Jan 2021</i>
<ul style="list-style-type: none">Executed on a key role in migration of Business ByDesign application platform from ABAP to NodeJSDelivered major features for Business ByDesign's incident management capabilitySpearheaded 6 research projects including generating Selenium script from manual testing scenarios, NLP based user task creation and context-based fake data generationInitiated and implemented ingestion pipeline monitoring for SAP IoT Platform	

KEY PROJECTS

Microservices-based Photo storage and sharing app <i>Cloud-native Technologies</i>	<i>Jan 2021 – May 2021</i>
<ul style="list-style-type: none">Created a highly available, fault tolerant cloud native photo sharing and storage appUsed ReactJS for frontend, Python, TypeScript and Java for microservices communicating with gRPC and RESTDeployed on custom Kubernetes cluster running on OpenStack for container orchestrationImplemented CI/CD using Jenkins and automatic cluster deployment using ANSIBLEHandled up to 1000 concurrent requests per instance per service, tested using JMeterhttps://github.com/visheshdembla/Panorama	
Source to Source Compiler <i>Typescript, ABAP, ABAP Compiler, TS Compiler</i>	<i>Apr 2019 – Jul 2020</i>
<ul style="list-style-type: none">Accelerated product migration by 30% by converting 60% of ABAP code to TypescriptDelivered top 40% of all ABAP constructs used in codebaseWrote a VS Code Extension for consumption of compilerPerformed static code analysis on codebase to prioritise constructs based on occurrence frequency	
Hybrid Stack for Product Migration <i>Typescript, ABAP</i>	<i>Sep 2019 – Feb 2020</i>
<ul style="list-style-type: none">Provided a hybrid-stack based on ABAP and NodeJS to facilitate migration of SAP Business ByDesignDecoupled migration of UI layer, controller layer and backend layerEnabled delegation of stateful as well as stateless calls from ABAP to NodeJS	
Machine Comprehension For Solution Search <i>Python, Tensorflow</i>	<i>Oct 2018 – Jan 2019</i>
<ul style="list-style-type: none">Drove integration of machine comprehension capabilities in SAP Business ByDesign for automated solution suggestionTrained, tested and deployed BiDAF by AI2 to achieve EM score of 58 and F1 score of 60Achieved decrease in inflow consultation by around 12% for pilot customers	

PUBLICATIONS

Implementation of Grid System over LiFi Network <i>Fourth International Conference on Computing Communication Control and Automation</i>	<i>Aug 2018</i>
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ACCOMPLISHMENTS

SAP InnVent: Won 2020 flagship venture challenge at SAP
SAP Catalyst: Recognition for being top performer in team for year 2019 and 2020

TECHNICAL SKILLS

Skills: Microservice Architecture, Backend Development, Distributed Systems, Compiler Design, Machine Learning
Languages: TypeScript, JavaScript, Java, Python, ABAP, SQL, Go, C, C++
Technologies: Kubernetes, Docker, Kafka, gRPC, Express, Spring, MongoDB, PostgreSQL, Flask, BeautifulSoup
Tools: Git, Postman, JMeter, Jenkins, Linux