

John Barclay Walsh

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Education

- **The Pennsylvania State University (Cumulative GPA: 3.83)** University Park, PA
B.S. in Information Sciences and Technology (4.00/4.00) Aug. 2011 – May 2016
B.A. in Film/Video Production (3.97/4.00)

Experience

- **PRO-MIC Corporation** Remote
Part-Time Developer/Architect & Systems Engineer Feb. 2017 – Present
 - Designing and developing an IR thermometer solution to check staff body temperatures at entry, responding the shortage of such solutions resulting from the demand spike brought on by COVID-19
 - Set up a company VPN, enabling more work to be done remotely, which has proven particularly beneficial during the present pandemic
 - Coordinated and performed a zero-downtime migration off of obsolete hardware for the internal fileserver, along with the company web and email servers
 - Remotely managed, with occasional onsite maintenance, the company's IT infrastructure
 - Created video tutorials, product photography, and product literature
 - Improved data durability and improved website performance, while minimizing costs by planning and implementing a hybrid AWS-on-prem architecture
- **Pariveda Solutions** Houston, TX
Senior Software Consultant Jul. 2019 – Sep. 2020
 - Worked with numerous clients across a multitude of industries, architecting & developing a variety of custom solutions, with particular emphasis on both new and migrated cloud applications, largely with AWS, but also Azure and Salesforce
 - Contributed to the development of a cross-platform mobile application, using Xamarin with Bluetooth LE connectivity to interface with a smart scale, along with a cloud-hosted backend
 - Developed a backend for a client project, built on AWS with the Serverless Framework including data storage, analysis, and an API
 - Architected and contributed to the design and development of the AWS version of a Java EE application that that was previously GCP, refactoring it to be cloud-agnostic, and writing the AWS connector implementations
 - Wrote numerous Python scripts to automate laborious deployment and tasking tasks
 - Built several automated CI/CD testing and deployment pipelines for clients, using AWS CodePipeline w/ CodeDeploy, Jenkins, Azure DevOps, and CircleCI
 - Architected and contributed to the design and development of a novel healthcare application which utilized AWS Transcribe & Comprehend Medical to improve patient-provider interaction by acting as a virtual scribe, collecting key information from the conversation, and drafting post-visit & provider summaries, sending the collected data to the patient's Epic profile, freeing providers to focus on the patient
- **Pariveda Solutions** Los Angeles, CA
Software Consultant Aug. 2016 – Jun. 2019
 - Architected an AWS-hosted serverless cloud platform for a custom solution for detecting anomalies in the client's vendor's invoices, increasing the percentage of invoices that were reviewed from <20% to 100%
 - Tech Lead on a team developing a custom serverless case management solution for a client using ReactJS, hosted on Amazon S3, backed by DynamoDB via API Gateway endpoints
 - Expanded and maintained a set of Jenkins CI/CD pipelines across a coordinated, multi-team AWS-based cloud project for a large client
 - Developed a dashboard to display and track project process for a client using JavaScript, NodeJS, D3, jQuery, HTML5, and CSS3
 - Created tracking pixel verification and self-healing software for a client using JavaScript, NodeJS, AWS Lambda and Kinesis
 - Developed a new enrollments application and workflow on Salesforce with Vlocity for a major retail energy client's CSRs to use

- **PRO-MIC Corporation** King of Prussia, PA
IT Systems Administrator and Web Developer *May 2009 – Apr. 2016*
 - Role was full-time during summers, except 2013 & 2015, and part-time during classes, except fall 2015
 - Redesigned and modernized the company’s website twice, in both 2011 and 2016
 - Designed and programmed an online store using PHP, MySQL, and JavaScript
 - Performed electronic circuit board repairs
 - Designed and built a fanless, solid state industrial all-in-one computer system
 - Planned and implemented a long-range industrial Wi-Fi network for a client
 - Planned, and maintain three web servers, several workstation computers, and the internal server system
 - Designed and implemented VOIP phone system
- **Easypose / Deskāna** State College, PA
Co-Founder / Chief Technical Officer *Sep. 2013 – Aug. 2016*
 - Co-founded workplace wellness firm to provide yoga and mindfulness services to local businesses at lunchtime
 - Pilot tested with local startup; failure to grow with previous business model resulted in pivot
 - Developed a new product, Deskāna, which uses an Arduino Uno and Bluetooth LE to facilitate proper posture, sedentary awareness, and stress-relief breaks throughout the workday
- **Cozy Mystery Club** State College, PA
Chief Technical Officer *Oct. 2015 – Sep. 2016*
 - Helped launch a local startup focused on providing team-building startup through puzzles and mysteries
 - Competed in a startup pitch competition funded by the university’s entrepreneurship program
 - Designed and built company web presence, email system, and other technical components
 - Sourced unique items to create novel and engaging puzzles for clients
- **Alcoa, Inc.** Pittsburgh, PA
Global Business Services – Information Services Intern *May 2015 – Nov. 2015*
 - Developed a product filtering system for the company website using ASP, JavaScript, and SQL, and another with C# and .NET
 - Configured and migrated web analytics to Google Analytics
 - Created web-based tools for internal use that helped increase the efficiency of business processes
 - Debugged existing site content
 - Leveraged Instagram API to enrich site content
 - Updated and created content for the company’s customer-facing websites
 - Wrote end-user and developer documentation for projects I worked on
- **Brett Sherrick - Graduate Research Project** State College, PA
Java Developer *Apr. 2014 – Aug. 2014*
 - Research project for the Penn State Department of Communications
 - Worked on a small team to develop a Java-based video game using JFrame and Swing
- **NBCUniversal - PBS Kids: Sprout Division** Philadelphia, PA
Production Intern *May 2013 – Aug. 2013*
 - Critical role in production and smooth running of programming on a network with 50 million viewers
 - Production assistant on "The Sunny Side Up Show," a daily live broadcast
 - Broadcasted several childrens’ birthday wishes, screened contest submissions, and managed website content
 - Delineated travel itineraries for guests on the show, including The Wiggles
 - Created props and display plates for television

Skills & Certifications

Certifications: AWS Certified Solutions Architect (Associate); Salesforce EPC/CPQ

Selected Technologies: JavaScript/TypeScript, React.js, Vue.js, jQuery, D3.js, HTML, CSS, C#, .NET, Objective C, Java, SpringBoot, PHP, Python, ASP, VBScript, MSSQL, MySQL, PostgreSQL, NoSQL, JSON, YAML, AJAX, C/C++, LaTeX, OAuth, Salesforce, Vlocity, Bluetooth LE, Elasticsearch, Arduino, Raspberry Pi, Windows, macOS, Linux, iOS, Android, Xamarin, AWS, Azure, CI/CD (Jenkins, CodePipeline/CodeDeploy, CircleCI, Azure DevOps), Git, AI/ML, electronics soldering, CADD, far-field microphones, computer networking (on-prem & cloud, esp. AWS)

Industry Experience: Automotive, Consulting, eCommerce, Entertainment, Information Technology, Healthcare, Manufacturing, Oil & Gas, Professional Services, Research, Retail Energy, Transportation & Warehousing