

Nick Aschenbach

Background

A full stack web development software engineer with a multidisciplinary background. I specialize in developing AWS cloud enabled back-end APIs in NodeJS. I have experience dealing with PII/HIPAA/PHI data and payments in a variety of environments. I worked in new product development most of my career. I am passionate about doing the right thing for users and working on products with a clear value proposition.

Lead Software Development Engineer

Cambia Health Solutions

Apr 2016 – Nov 2019 (3 yrs 8 mos)

Portland, Oregon

Full stack developer for Project Health Pass [\[link\]](#)

I lead my team to develop a medical bill payment application that provided insights for how users can save money. Instead of going to multiple provider portals, we enabled claims/bills to flow into the app. This allowed users to pay all of their medical bills in one place. The app was supported by our talented billing specialists, who advocated for and helped users to understand their medical bills. Predominantly, I focused on the back-end part of the app on writing multiple microservices.

I developed a payment application for medical claims that provides insights for how users can save money. Instead of going to multiple provider portals, we allowed all these claims/bills to flow into the app. This allowed users to pay all of their medical bills in one place. The app was supported by our talented billing specialists, who help to understand medical bills and advocate for the user. Predominantly, I focused on the back-end part of the app running multiple microservices.

- Developed insights for bills employing medical expert knowledge and data science techniques
- Engineered RESTful APIs using Node.js on the back-end (express, sequelize, Cognito/JWT-based auth, jest)
- Developed React-Native front-end app to support iOS and Android devices
- Constructed Extract-Transform-Load (ETL) pipelines using AWS technologies: S3, Lambda, SQS, ECS and RDS (Postgres/MySQL)
- Employed AWS technologies: EC2, IAM, load balancers, Route53, ACM and CloudWatch Logs/Events
- Assisted with CI/CD pipeline development with GitLab CI and Jenkins
- Developed and led agile rituals including scrum, sprint planning, demo and grooming
- Practiced Test Driven Development (TDD)
- Developed API documentation and enabled four front-end teams to integrate with our back-end
- Set up monitoring and alerting both via email and Slack using New Relic, Datadog and custom code
- Debugged, reproduced locally and fixed multiple production issues
- Processed HL7 FHIR-based explanation of benefit resources

Software Development Engineer

Hewlett-Packard

Jan 2014 – Apr 2016 (2 yrs 4 mos)

Vancouver, Washington

Ruby on Rails developer for Instant Ink Subscription Service [\[link\]](#)

- Increased customer base by over 50x from 30K to 1M users
- Delivered back-end fulfillment and point-of-sale activation (card redemption) services for Instant Ink
- Developed multiple bill payment systems to support US and overseas customers
- Developed back-end to communicate with over 1M printer embedded systems
- Created rails engines for tax calculation and prepaid cards
- Investigated and fixed production issues with monitoring tools including New Relic and Splunk
- Prototyped new applications using Rails and Sinatra
- Analyzed and improved application performance

- Used agile methodologies including test driven development and pair programming

Software Development Engineer

Mentor Graphics

Jun 2012 – Jan 2014 (1 yr 8 mos)

Wilsonville, Oregon

C# developer for SystemVision Cloud [\[link\]](#)

- Developed web based multi-physics simulator on Windows Azure
- Implemented REST web API using ASP .NET MVC
- Trained client developers and prototyped javascript / HTML5 tools
- Employed Agile development practices including test-driven development and pair programming
- Exercised code with with RestSharp, Fiddler and POSTman

Previous roles:

- Mathematical Modeling Associate - *Physiome Sciences*
- Software Development Intern - *Thetus*
- General Manager - *Plastic Supply*
- Product Development - *Ultra Poly*

Training:

- M.S. Computer Science - *Portland State University*
- B.S. Computer Science - *University of Washington*
- B.A. Computational Biology - *Claremont Colleges*