

# Jacob Marttinen

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## Summary

Full-stack backend developer experienced in building out application servers from the ground up, from initial API design to large-scale production deployment.

## Skills

- **Languages/Frameworks:** Go, Node.js (Koa, Express), Python (Flask), iOS (Swift), Unity (C#)
- **Data:** DynamoDB, MySQL (+Amazon Aurora), Redis, Google NDB
- **Infrastructure/Ops:** AWS (EC2, Elastic Beanstalk, RDS, DynamoDB, ElastiCache, S3, SNS, SES), Google Cloud (App Engine, Compute Engine, NDB), PubNub, TokBox, Twilio, Git/GitHub

## Projects

-  **Portal** – *portal.me* 04/2016 – 10/2016
  - Portal is a real-time video broadcast platform that lets users share life's little moments as they happen
  - Engineered video router backend to support video broadcast to 1–500 people with <100ms latency
  - **Technologies used:** Go, DynamoDB, AWS, WebRTC, Janus, PubNub, TokBox
-  **Peach** – *peach.cool* 09/2015 – 04/2016
  - Peach is an intimate social journal that lets users share and chat in a real and personal way
  - Designed/developed/deployed application backend that scaled to >100k actives within 24h of launch
  - **Technologies used:** Go, MySQL (Aurora), DynamoDB, Redis, AWS

## Experience

-  **Founding Engineer at Interspace** – *New York, NY* 10/2016 – Present
  - Creating something new in the VR space
-  **Senior Software Engineer at Byte** – *New York, NY* 06/2014 – 10/2016
  - Lead backend API architecture, development, and deployment for several iOS/Android/web applications with >500k users
  - Managed infrastructure for two distributed systems deployed on AWS with four nines reliability
  - Helped grow the company as the first hire to a team of 12; mentored a team of 1–3 engineers
-  **Software Development Engineer at Microsoft** – *Redmond, WA* 08/2013 – 06/2014
  - Ensured consistent scaling and performance between three major Entity Framework releases
  - Made several open-source contributions to the Microsoft Azure SDK for Node.js
  - Assisted in the initial open-source conversion of the .NET 5 framework on GitHub
-  **Web Engineer at Work Market** – *New York, NY* 10/2012 – 08/2013
  - Increased mobile engagement by 30% by independently developing Android/iOS webview applications for the mobile platform
  - Implemented several features for the Work Market web platform (Java/Spring/Hibernate)

## Education

**BA of Mathematics (Computer Science), University of Waterloo, Canada**  
**iOS Developer Nanodegree, Udacity**

04/2014  
In Progress