

# 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 (Gorilla, Negroni), Node.js (Koa, Express), Python (Flask), WebRTC (+Janus), iOS (Swift 3), basic front-end web (HTML/CSS/JS)
- **Data:** DynamoDB, MySQL (+Amazon Aurora), Redis, Google NDB, PostgreSQL
- **Infrastructure/Ops:** AWS (EC2, Elastic Beanstalk, RDS, DynamoDB, ElastiCache, S3, SNS, SES), Google Cloud (App Engine, Compute Engine, NDB), PubNub, TokBox, Twilio, Git/GitHub, Datadog, CircleCI, Apex Ping, Pingdom, PagerDuty

## Projects

-  **Peach** – <http://peach.cool>
  - Peach is an intimate social journal that lets you share in a real and personal way (+ chat)
  - Designed/developed/deployed application backend that scaled to >100k actives within 24h of launch
  - Technologies Used: Go, MySQL (Aurora), DynamoDB, Redis, AWS
-  **Portal** – <http://portal.me>
  - Portal is a real-time video broadcast platform that lets you share moments of your life 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

## Experience

-  **Senior Software Engineer at Byte** – New York, NY 06/2014 – Present
  - Lead backend API architecture/development/deployment for several iOS/Android/web applications with >500k users
  - Helped grow the company from the first hire to a team of 12
  - Managed/mentored a small team of 1–3 engineers
-  **Software Development Engineer at Microsoft** – Redmond, WA 08/2013 – 06/2014
  - Optimized scaling and performance for Entity Framework releases
  - Contributed to the Microsoft Azure SDK for Node.js
  - Assisted in the initial open-sourcing of the .NET 5 framework
-  **Web Engineer at Work Market** – New York, NY 10/2012 – 08/2013
  - Implemented several features for the Work Market web platform
  - Developed Android/iOS webview applications for the mobile platform

## Education

**Honours Bachelor of Mathematics (Computer Science), University of Waterloo, Canada**  
**iOS Developer Nanodegree (in progress), Udacity**